

Sample Description: SL-005-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
 LLI Group # 1225039
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3515 SDG#: DE035-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5 U	6.5	7.8		0.89
06192	Benzene	71-43-2	0.1 U	0.1	3.9		0.89
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9		0.89
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9		0.89
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9		0.89
06192	Bromoform	75-25-2	0.39 U	0.39	3.9		0.89
06192	Bromomethane	74-83-9	0.24 U	0.24	3.9		0.89
06192	2-Butanone	78-93-3	1.2 U	1.2	7.8		0.89
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9		0.89
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9		0.89
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9		0.89
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9		0.89
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9		0.89
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9		0.89
06192	Chloroform	67-66-3	0.12 U	0.12	3.9		0.89
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9		0.89
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9		0.89
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68 U	0.68	3.9		0.89
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.9		0.89
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	3.9		0.89
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.9		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9		0.89
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9		0.89
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9		0.89
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.9		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9		0.89
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	3.9		0.89
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9		0.89
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	3.9		0.89
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	3.9		0.89
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9		0.89
06192	Freon 113	76-13-1	0.11 U	0.11	3.9		0.89
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9		0.89
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.8		0.89
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9		0.89
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20 U	0.20	3.9		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.8		0.89
06192	Methylene Chloride	75-09-2	1.4 J	0.23	3.9		0.89
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9		0.89

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B							
06192	Styrene	100-42-5	0.1 U	0.1	3.9		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.9		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22	3.9		0.89
06192	Tetrachloroethene	127-18-4	0.19 U	0.19	3.9		0.89
06192	Toluene	108-88-3	0.12 J	0.08	3.9		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	3.9		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	3.9		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	3.9		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.9		0.89
06192	Trichloroethene	79-01-6	0.15 U	0.15	3.9		0.89
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28	3.9		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.9		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39	3.9		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.9		0.89
06192	Vinyl Chloride	75-01-4	0.19 U	0.19	3.9		0.89
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	3.9		0.89
06192	o-Xylene	95-47-6	0.17 U	0.17	3.9		0.89
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	4.3 U	4.3	13		19.69
GC/MS Semivolatiles EPA 1625C							
11622	N-Nitrosodimethylamine	62-75-9	72.8 J	36.7	73.3		2
GC/MS Semivolatiles SW-846 8270C							
04688	Aniline	62-53-3	180	U 180	550		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U 180	550		1
04688	Benzyl alcohol	100-51-6	180	U 180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	180		1
04688	4-Chloroaniline	106-47-8	73	U 73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U 730	2,200		1

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U 18	370		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	550		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	37	U 37	180		1
04688	4-Methylphenol	106-44-5	37	U 37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	37	U 37	180		1
04688	4-Nitroaniline	100-01-6	73	U 73	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	550		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U 0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U 0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.0	J 0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.0	J 0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.2	U 0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U 0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U 0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U 6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U 6.6	20		1
10138	Chrysene	218-01-9	1.7	J 0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U 0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U 6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U 6.6	20		1
10138	Fluoranthene	206-44-0	1.8	J 0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U 0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U 0.73	1.8		1

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GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.73 U	0.73	1.8	ug/kg	1
10138	2-Methylnaphthalene	91-57-6	0.73 U	0.73	1.8	ug/kg	1
10138	Naphthalene	91-20-3	0.73 U	0.73	1.8	ug/kg	1
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8	ug/kg	1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20	ug/kg	1
10138	Phenanthrene	85-01-8	0.73 U	0.73	1.8	ug/kg	1
10138	Pyrene	129-00-0	1.7 J	0.73	1.8	ug/kg	1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1.2	mg/kg	27.41
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83 U	83	170	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55 U	55	170	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	330	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	330	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	55 U	55	170	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	55 U	55	170	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	55 U	55	170	1000000	1
10132	HMX	2691-41-0	140 U	140	410	1000000	1
10132	Nitrobenzene	98-95-3	55 U	55	170	1000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,300	1000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	170	1000000	1
10132	3-Nitrotoluene	99-08-1	140 U	140	170	1000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	170	1000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,300	1000000	1
10132	RDX	121-82-4	69 U	69	170	1000000	1
10132	Tetryl	479-45-8	84 U	84	170	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55 U	55	170	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55 U	55	170	1000000	1

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HPLC Organics								
	SW-846 8315A		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	3,300		660	1,700		1
Pesticides/PCBs								
	SW-846 8082		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U		1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1 U		1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.7 J		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36 U		0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55 U		0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57 U		0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55 U		0.55	1.9		1
10225	PCB-1248	12672-29-6	1.4 J		0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36 U		0.36	1.9		1
10225	PCB-1260	11096-82-5	0.92 J		0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36 U		0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36 U		0.36	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Extractable TPH								
	SW-846 8015B modified		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.44 U		0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.58 J		0.44	1.3		1
10199	EFH (C21-C30)	n.a.	15		0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	51		0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44 U		0.44	1.3		1
GC Miscellaneous								
	SW-846 8015B		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	190 J		110	550		1
10501	Isopropanol	67-63-0	110 U		110	550		1
10501	Methanol	67-56-1	110 J		110	550		1
GC Miscellaneous								
	SW-846 8015B modified		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.5 U		5.5	14		1
08283	Ethylene glycol	107-21-1	5.5 U		5.5	14		1
08283	Propylene glycol	57-55-6	5.5 U		5.5	14		1
Terphenyls								
	SW-846 8015B		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 U		1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7 U		1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7 U		1.7	3.9		1
Metals								
	SW-846 6010B		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,700		5.37	21.4		1
07914	Boron	7440-42-8	6.30		0.951	5.34		1
01650	Calcium	7440-70-2	3,520		6.55	21.4		1
01654	Iron	7439-89-6	19,000		5.03	21.4		1

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 SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3515 SDG#: DE035-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	19.2	0.23	2.1		1
01657	Magnesium	7439-95-4	3,780	2.71	10.7		1
06958	Manganese	7439-96-5	229	0.0833	0.534		1
10145	Phosphorus	7723-14-0	395	0.598	10.7		1
01662	Potassium	7440-09-7	2,550	19.2	53.4		1
01667	Sodium	7440-23-5	256	39.8	107		1
07968	Strontium	7440-24-6	23.7	0.0662	0.534		1
06969	Tin	7440-31-5	1.92 J	1.07	10.7		1
06970	Titanium	7440-32-6	1,100	0.402	1.06		1
10146	Zirconium	7440-67-7	1.06 J	0.897	5.34		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.143 J	0.0647	0.216		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.78	0.0647	0.431		2
06126	Barium	7440-39-3	127	0.116	0.431		2
06127	Beryllium	7440-41-7	0.576	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.324	0.0388	0.108		2
06131	Chromium	7440-47-3	22.4	0.129	0.431		2
06132	Cobalt	7440-48-4	6.99	0.0216	0.108		2
06133	Copper	7440-50-8	11.6	0.0712	0.431		2
06135	Lead	7439-92-1	10.1	0.0112	0.216		2
06138	Molybdenum	7439-98-7	1.20	0.0539	0.108		2
06139	Nickel	7440-02-0	12.6	0.108	0.431		2
06141	Selenium	7782-49-2	0.160 J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0316 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.366	0.0324	0.108		2
06148	Vanadium	7440-62-2	46.4	0.0237	0.108		2
06149	Zinc	7440-66-6	129	0.604	3.24		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.106		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	6.7	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.88 U	0.88	1.7		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.54		1

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

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

Sample Description: SL-005-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3515 SDG#: DE035-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
The sample was analyzed outside of the 14 day holding time for Total Cyanide.							
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	490	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.68	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.1	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-005-SA5C-SB-9.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 02:50	Laura M Krieger	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 02:08	Sara E Johnson	19.69
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:00	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034523272	12/11/2010 19:12	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034523272	12/11/2010 19:00	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 15:39	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 06:37	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010 04:38	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1

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

Sample Description: SL-005-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3515 SDG#: DE035-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 17:00	Elizabeth J Marin	27.41
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:00	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/17/2010 01:53	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 02:17	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 06:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 21:36	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 19:21	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/17/2010 15:54	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 15:31	Heather E Williams	1
11238	EPH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 16:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 20:25	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:54	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 08:59	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:44	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:44	Choon Y Tian	2

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

Sample Description: SL-005-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-005-SA5C-SB-9.0-10.0

LLI Sample # SW 6162958
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 15:39

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3515 SDG#: DE035-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010	12:44	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010	12:44	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010	12:44	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010	12:44	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010	12:44	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010	12:44	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010	12:44	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010	12:44	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010	12:44	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010	12:44	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010	12:44	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010	06:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010	20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010	12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010	20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010	22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201B	12/30/2010	04:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10362362201B	12/30/2010	04:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201B	12/29/2010	06:18	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010	15:17	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010	18:42	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201B	12/28/2010	11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203B	12/28/2010	14:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010	08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182103B	12/14/2010	13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039403B	12/14/2010	13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010	07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010	21:06	Scott W Freisher	1

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

Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
 LLI Group # 1225039
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4 U	7.4	8.9		1.04
06192	Benzene	71-43-2	0.11 U	0.11	4.4		1.04
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.4		1.04
06192	Bromochloromethane	74-97-5	0.37 U	0.37	4.4		1.04
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.4		1.04
06192	Bromoform	75-25-2	0.44 U	0.44	4.4		1.04
06192	Bromomethane	74-83-9	0.28 U	0.28	4.4		1.04
06192	2-Butanone	78-93-3	1.4 U	1.4	8.9		1.04
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.4		1.04
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.4		1.04
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.4		1.04
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.4		1.04
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.4		1.04
06192	Chloroethane	75-00-3	0.14 U	0.14	4.4		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33 U	0.33	4.4		1.04
06192	Chloroform	67-66-3	0.13 U	0.13	4.4		1.04
06192	Chloromethane	74-87-3	0.37 U	0.37	4.4		1.04
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.4		1.04
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.4		1.04
06192	Chlorotrifluoroethene	79-38-9	0.56 U	0.56	5.5		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78 U	0.78	4.4		1.04
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.4		1.04
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.4		1.04
06192	Dibromomethane	74-95-3	0.27 U	0.27	4.4		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.4		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.4		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.4		1.04
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.4		1.04
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.4		1.04
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.4		1.04
06192	1,1-Dichloroethene	75-35-4	0.43 U	0.43	4.4		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.4		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.4		1.04
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.4		1.04
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.4		1.04
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.4		1.04
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.4		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.4		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.4		1.04
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.4		1.04
06192	Freon 113	76-13-1	0.12 U	0.12	4.4		1.04
06192	Freon 133a	75-88-7	0.56 U	0.56	5.5		1.04
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.4		1.04
06192	2-Hexanone	591-78-6	1.8 U	1.8	8.9		1.04
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.4		1.04
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.4		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.4		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.43 U	0.43	8.9		1.04
06192	Methylene Chloride	75-09-2	1.1 J	0.27	4.4		1.04
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.4		1.04

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

Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
 LLI Group # 1225039
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B							
06192	Styrene	100-42-5	0.11 U	0.11	4.4		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.4		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26 U	0.26	4.4		1.04
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.4		1.04
06192	Toluene	108-88-3	0.15 J	0.09	4.4		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.4		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.4		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.4		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.30 U	0.30	4.4		1.04
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.4		1.04
06192	Trichlorofluoromethane	75-69-4	0.32 U	0.32	4.4		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.37 U	0.37	4.4		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.44 U	0.44	4.4		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.4		1.04
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.4		1.04
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.4		1.04
06192	o-Xylene	95-47-6	0.19 U	0.19	4.4		1.04
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16		24.56
GC/MS Semivolatiles EPA 1625C							
11622	N-Nitrosodimethylamine	62-75-9	96.5	17.8	35.7		1
GC/MS Semivolatiles SW-846 8270C							
04688	Aniline	62-53-3	180	U 180	530		1
04688	Benzidine	92-87-5	1,200	U 1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U 180	530		1
04688	Benzyl alcohol	100-51-6	180	U 180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180		1
04688	4-Chloroaniline	106-47-8	71	U 71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U 710	2,100		1

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Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U 71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	530		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	71	U 71	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U 180	530		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U 0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U 0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U 0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	J 0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U 0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U 0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U 6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U 6.4	19		1
10138	Chrysene	218-01-9	0.51	J 0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U 0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U 6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U 6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U 6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U 0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U 0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U 0.71	1.8		1

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Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.71 U	0.71	1.8	ug/kg	1
10138	2-Methylnaphthalene	91-57-6	0.71 U	0.71	1.8	ug/kg	1
10138	Naphthalene	91-20-3	0.71 U	0.71	1.8	ug/kg	1
10138	N-Nitrosodimethylamine	62-75-9	0.71 U	0.71	1.8	ug/kg	1
10138	Di-n-octylphthalate	117-84-0	6.4 U	6.4	19	ug/kg	1
10138	Phenanthrene	85-01-8	0.71 U	0.71	1.8	ug/kg	1
10138	Pyrene	129-00-0	0.71 U	0.71	1.8	ug/kg	1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1	mg/kg	23.02
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	80 U	80	160	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	53 U	53	160	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	53 U	53	160	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	53 U	53	160	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	53 U	53	160	1000000	1
10132	HMX	2691-41-0	130 U	130	400	1000000	1
10132	Nitrobenzene	98-95-3	53 U	53	160	1000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200	1000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1000000	1
10132	3-Nitrotoluene	99-08-1	130 U	130	160	1000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,200	1000000	1
10132	RDX	121-82-4	67 U	67	160	1000000	1
10132	Tetryl	479-45-8	82 U	82	160	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	53 U	53	160	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	53 U	53	160	1000000	1

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Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
 LLI Group # 1225039
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Project Name: SSFL Area IV Collocated Soil Sampling

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D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics								
	SW-846 8315A		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	640 U		640	1,600		1
Pesticides/PCBs								
	SW-846 8082		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U		1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1 U		1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1 U		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35 U		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53 U		0.53	1.8		1
10225	PCB-1232	11141-16-5	0.56 U		0.56	1.8		1
10225	PCB-1242	53469-21-9	0.53 U		0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35 U		0.35	1.8		1
10225	PCB-1254	11097-69-1	0.91 J		0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35 U		0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35 U		0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35 U		0.35	1.8		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Extractable TPH								
	SW-846 8015B modified		mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43 U		0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43 U		0.43	1.3		1
10199	EFH (C21-C30)	n.a.	1.5		0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	5.2		0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43 U		0.43	1.3		1
GC Miscellaneous								
	SW-846 8015B		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	180 J		110	530		1
10501	Isopropanol	67-63-0	110 U		110	530		1
10501	Methanol	67-56-1	110 U		110	530		1
GC Miscellaneous								
	SW-846 8015B modified		mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.3 U		5.3	13		1
08283	Ethylene glycol	107-21-1	5.3 U		5.3	13		1
08283	Propylene glycol	57-55-6	5.3 U		5.3	13		1
Terphenyls								
	SW-846 8015B		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6 U		1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6 U		1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6 U		1.6	3.7		1
Metals								
	SW-846 6010B		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,400		5.27	21.0		1
07914	Boron	7440-42-8	6.42		0.933	5.24		1
01650	Calcium	7440-70-2	3,550		6.43	21.0		1
01654	Iron	7439-89-6	20,200		4.94	21.0		1

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Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	18.5	0.23	2.1		1
01657	Magnesium	7439-95-4	4,170	2.66	10.5		1
06958	Manganese	7439-96-5	273	0.0818	0.524		1
10145	Phosphorus	7723-14-0	437	0.587	10.5		1
01662	Potassium	7440-09-7	2,630	18.9	52.4		1
01667	Sodium	7440-23-5	189	39.1	105		1
07968	Strontium	7440-24-6	20.4	0.0650	0.524		1
06969	Tin	7440-31-5	2.06 J	1.05	10.5		1
06970	Titanium	7440-32-6	1,290	0.398	1.05		1
10146	Zirconium	7440-67-7	1.67 J	0.881	5.24		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.180 J	0.0635	0.212		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.23	0.0635	0.424		2
06126	Barium	7440-39-3	120	0.114	0.424		2
06127	Beryllium	7440-41-7	0.618	0.0169	0.106		2
06128	Cadmium	7440-43-9	0.137	0.0381	0.106		2
06131	Chromium	7440-47-3	26.0	0.127	0.424		2
06132	Cobalt	7440-48-4	8.24	0.0212	0.106		2
06133	Copper	7440-50-8	11.1	0.0699	0.424		2
06135	Lead	7439-92-1	7.98	0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.548	0.0529	0.106		2
06139	Nickel	7440-02-0	12.7	0.106	0.424		2
06141	Selenium	7782-49-2	0.220 J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0214 J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.354	0.0318	0.106		2
06148	Vanadium	7440-62-2	60.7	0.0233	0.106		2
06149	Zinc	7440-66-6	85.9	0.593	3.18		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.4	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.7	0.86	1.6		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	32.1		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.1		1
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.51		1

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Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

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Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3516 SDG#: DE035-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
The sample was analyzed outside of the 14 day holding time for Total Cyanide.							
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	417	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.20	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	6.5	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-009-SA5C-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 03:13	Laura M Krieger	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 02:27	Sara E Johnson	24.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:04	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034523272	12/11/2010 19:12	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034523272	12/11/2010 19:05	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 11:55	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 07:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010 05:12	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1

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

Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3516 SDG#: DE035-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 17:36	Elizabeth J Marin	23.02
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:04	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/17/2010 02:35	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 02:26	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 07:13	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 15:46	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 19:35	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/17/2010 15:38	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 05:48	Heather E Williams	1
11238	EPH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 16:34	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 20:29	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 08:58	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 09:03	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:47	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:47	Choon Y Tian	2

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

Sample Description: SL-009-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-4.0-5.0

LLI Sample # SW 6162959
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:19

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3516 SDG#: DE035-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010	12:47	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010	12:47	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010	12:47	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010	12:47	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010	12:47	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010	12:47	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010	12:47	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010	12:47	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010	12:47	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010	12:47	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010	12:47	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010	06:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010	20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010	12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010	20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010	22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201B	12/30/2010	05:03	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10362362201B	12/30/2010	05:03	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201B	12/29/2010	07:30	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010	15:30	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010	18:43	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201B	12/28/2010	11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203B	12/28/2010	14:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010	08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182104A	12/14/2010	14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039404A	12/14/2010	14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010	07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010	21:06	Scott W Freisher	1

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

Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
 LLI Group # 1225039
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7 J	7.5	8.9		1
06192	Benzene	71-43-2	0.11 U	0.11	4.5		1
06192	Bromobenzene	108-86-1	0.15 U	0.15	4.5		1
06192	Bromochloromethane	74-97-5	0.37 U	0.37	4.5		1
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.5		1
06192	Bromoform	75-25-2	0.45 U	0.45	4.5		1
06192	Bromomethane	74-83-9	0.28 U	0.28	4.5		1
06192	2-Butanone	78-93-3	1.4 U	1.4	8.9		1
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.5		1
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.5		1
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.5		1
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.5		1
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.5		1
06192	Chloroethane	75-00-3	0.15 U	0.15	4.5		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33 U	0.33	4.5		1
06192	Chloroform	67-66-3	0.13 U	0.13	4.5		1
06192	Chloromethane	74-87-3	0.37 U	0.37	4.5		1
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.5		1
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.5		1
06192	Chlorotrifluoroethene	79-38-9	0.56 U	0.56	5.6		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78 U	0.78	4.5		1
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.5		1
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.5		1
06192	Dibromomethane	74-95-3	0.27 U	0.27	4.5		1
06192	1,2-Dichlorobenzene	95-50-1	0.10 U	0.10	4.5		1
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.5		1
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.5		1
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.5		1
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.5		1
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.5		1
06192	1,1-Dichloroethene	75-35-4	0.44 U	0.44	4.5		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.5		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.5		1
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.5		1
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.5		1
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.5		1
06192	1,1-Dichloropropene	563-58-6	0.15 U	0.15	4.5		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.5		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.5		1
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.5		1
06192	Freon 113	76-13-1	0.12 U	0.12	4.5		1
06192	Freon 133a	75-88-7	0.56 U	0.56	5.6		1
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.5		1
06192	2-Hexanone	591-78-6	1.8 U	1.8	8.9		1
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.5		1
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.5		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.5		1
06192	4-Methyl-2-pentanone	108-10-1	0.44 U	0.44	8.9		1
06192	Methylene Chloride	75-09-2	1.8 J	0.27	4.5		1
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.5		1

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

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

Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
 LLI Group # 1225039
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B							
06192	Styrene	100-42-5	0.11 U	0.11	4.5		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.5		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26 U	0.26	4.5		1
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.5		1
06192	Toluene	108-88-3	0.13 J	0.09	4.5		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.5		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.5		1
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.5		1
06192	1,1,2-Trichloroethane	79-00-5	0.30 U	0.30	4.5		1
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.5		1
06192	Trichlorofluoromethane	75-69-4	0.32 U	0.32	4.5		1
06192	1,2,3-Trichloropropane	96-18-4	0.37 U	0.37	4.5		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.45 U	0.45	4.5		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.5		1
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.5		1
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.5		1
06192	o-Xylene	95-47-6	0.19 U	0.19	4.5		1
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16		23.72
GC/MS Semivolatiles EPA 1625C							
11622	N-Nitrosodimethylamine	62-75-9	178	18.6	37.3		1
GC/MS Semivolatiles SW-846 8270C							
04688	Aniline	62-53-3	190	U 190	560		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U 190	560		1
04688	Benzyl alcohol	100-51-6	190	U 190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	190		1
04688	4-Chloroaniline	106-47-8	75	U 75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560		1

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

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

Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
 LLI Group # 1225039
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrophenol	51-28-5	750	U 750	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	J 19	370		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U 75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	37	U 37	190		1
04688	4-Methylphenol	106-44-5	37	U 37	190		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	37	U 37	190		1
04688	4-Nitroaniline	100-01-6	75	U 75	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U 190	560		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U 0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	2.2	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.2	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	4.2	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U 0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.3	J 0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20		1
10138	Chrysene	218-01-9	2.7	U 0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U 0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20		1
10138	Fluoranthene	206-44-0	3.7	0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U 0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U 0.75	1.9		1

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Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.75 U	0.75	1.9	ug/kg	1
10138	2-Methylnaphthalene	91-57-6	0.75 U	0.75	1.9	ug/kg	1
10138	Naphthalene	91-20-3	0.75 U	0.75	1.9	ug/kg	1
10138	N-Nitrosodimethylamine	62-75-9	0.75 U	0.75	1.9	ug/kg	1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20	ug/kg	1
10138	Phenanthrene	85-01-8	0.75 J	0.75	1.9	ug/kg	1
10138	Pyrene	129-00-0	3.9	0.75	1.9	ug/kg	1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.3 U	0.3	1.3	mg/kg	28.74
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	84	U 84	170	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U 56	170	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	340	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	340	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	56	U 56	170	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	56	U 56	170	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	56	U 56	170	1000000	1
10132	HMX	2691-41-0	140	U 140	420	1000000	1
10132	Nitrobenzene	98-95-3	56	U 56	170	1000000	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,400	1000000	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000	1
10132	PETN	78-11-5	1,100	U 1,100	3,400	1000000	1
10132	RDX	121-82-4	70	U 70	170	1000000	1
10132	Tetryl	479-45-8	86	U 86	170	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U 56	170	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U 56	170	1000000	1

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Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
 LLI Group # 1225039
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

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 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics								
		SW-846 8315A	ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by	8315A 50-00-0	670 U		670	1,700		1
Pesticides/PCBs								
		SW-846 8082	ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U		1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1 U		1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1 U		1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37 U		0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56 U		0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58 U		0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56 U		0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37 U		0.37	1.9		1
10225	PCB-1254	11097-69-1	0.93 J		0.37	1.9		1
10225	PCB-1260	11096-82-5	0.66 J		0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37 U		0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37 U		0.37	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Extractable TPH								
		SW-846 8015B modified	mg/kg		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45 U		0.45	1.3		1
10199	EFH (C15-C20)	n.a.	1.2 J		0.45	1.3		1
10199	EFH (C21-C30)	n.a.	12		0.45	1.3		1
10199	EFH (C30 - C40)	n.a.	29		0.45	1.3		1
10199	EFH (C8-C11)	n.a.	0.45 U		0.45	1.3		1
GC Miscellaneous								
		SW-846 8015B	ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	190 J		110	560		1
10501	Isopropanol	67-63-0	110 U		110	560		1
10501	Methanol	67-56-1	110 U		110	560		1
GC Miscellaneous								
		SW-846 8015B modified	mg/kg		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.6 U		5.6	14		1
08283	Ethylene glycol	107-21-1	5.6 U		5.6	14		1
08283	Propylene glycol	57-55-6	5.6 U		5.6	14		1
Terphenyls								
		SW-846 8015B	mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 U		1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7 U		1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7 U		1.7	3.9		1
Metals								
		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,200		5.46	21.7		1
07914	Boron	7440-42-8	7.11		0.967	5.43		1
01650	Calcium	7440-70-2	3,850		6.66	21.7		1
01654	Iron	7439-89-6	20,600		5.12	21.7		1

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Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01656	Lithium	7439-93-2	20.1	0.24	2.2		1
01657	Magnesium	7439-95-4	3,760	2.76	10.9		1
06958	Manganese	7439-96-5	282	0.0847	0.543		1
10145	Phosphorus	7723-14-0	324	0.608	10.9		1
01662	Potassium	7440-09-7	2,510	19.5	54.3		1
01667	Sodium	7440-23-5	206	40.5	109		1
07968	Strontium	7440-24-6	21.4	0.0673	0.543		1
06969	Tin	7440-31-5	2.46 J	1.09	10.9		1
06970	Titanium	7440-32-6	1,230	0.417	1.10		1
10146	Zirconium	7440-67-7	1.33 J	0.912	5.43		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.123 J	0.0652	0.217		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.62	0.0652	0.434		2
06126	Barium	7440-39-3	90.7	0.117	0.434		2
06127	Beryllium	7440-41-7	0.522	0.0174	0.109		2
06128	Cadmium	7440-43-9	0.167	0.0391	0.109		2
06131	Chromium	7440-47-3	15.6	0.130	0.434		2
06132	Cobalt	7440-48-4	5.86	0.0217	0.109		2
06133	Copper	7440-50-8	7.10	0.0717	0.434		2
06135	Lead	7439-92-1	5.85	0.0113	0.217		2
06138	Molybdenum	7439-98-7	0.628	0.0543	0.109		2
06139	Nickel	7440-02-0	9.46	0.109	0.434		2
06141	Selenium	7782-49-2	0.0957 J	0.0434	0.434		2
06142	Silver	7440-22-4	0.0204 J	0.0130	0.109		2
06145	Thallium	7440-28-0	0.286	0.0326	0.109		2
06148	Vanadium	7440-62-2	33.6	0.0239	0.109		2
06149	Zinc	7440-66-6	61.9	0.608	3.26		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.3	0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.89 U	0.89	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	SW-846 9012B		mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1

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Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3517 SDG#: DE035-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
The sample was analyzed outside of the 14 day holding time for Total Cyanide.							
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	440	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.51	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.6	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-009-SA5C-SB-9.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 03:35	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 02:47	Sara E Johnson	23.72
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:08	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:12	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034523272	12/11/2010 19:12	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034523272	12/11/2010 19:09	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 12:13	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10350SLB026	01/01/2011 07:28	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349SLH026	12/23/2010 05:49	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1

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Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
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Account # 13013

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Submitted: 12/11/2010 09:40

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D3517 SDG#: DE035-17*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10349SLH026	12/16/2010 06:15	Joseph S Feister	1
00381	BNA Soil Sonication	SW-846 3550B	1	10350SLB026	12/16/2010 17:30	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10340B34B	12/14/2010 18:13	Elizabeth J Marin	28.74
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034523272	12/11/2010 19:08	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103480012A	12/17/2010 04:42	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103480007A	12/16/2010 02:36	Michele D Hamilton	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103500026A	12/22/2010 07:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103500026A	12/17/2010 00:40	David V Hershey Jr	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103480007A	12/14/2010 15:00	Kelli M Barto	1
11137	Energetics Extraction	SW-846 8330	1	103480012A	12/14/2010 14:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 18:41	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103480003A	12/15/2010 19:50	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103480019A	12/17/2010 16:10	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 16:16	Heather E Williams	1
11238	EPH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103480019A	12/15/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103480003A	12/15/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
07914	Boron	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
01650	Calcium	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
01654	Iron	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
01656	Lithium	SW-846 6010B	1	103495708006	12/22/2010 16:38	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
06958	Manganese	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
01662	Potassium	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
01667	Sodium	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
07968	Strontium	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
06969	Tin	SW-846 6010B	1	103495708006	12/17/2010 20:32	John P Hook	1
06970	Titanium	SW-846 6010B	1	103555708001	12/22/2010 09:02	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	103495708006	12/21/2010 09:07	Tara L Snyder	1
06124	Antimony	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103491026005D	12/23/2010 12:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103491026005A	12/23/2010 12:50	Choon Y Tian	2

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Sample Description: SL-009-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-009-SA5C-SB-9.0-10.0

LLI Sample # SW 6162960
LLI Group # 1225039
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/10/2010 14:28

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

Submitted: 12/11/2010 09:40

Reported: 01/13/2011 09:58

D3517 SDG#: DE035-17*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103491026005A	12/23/2010	12:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103491026005A	12/23/2010	12:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103491026005A	12/23/2010	12:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103491026005A	12/23/2010	12:50	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103491026005C	12/23/2010	12:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103491026005A	12/23/2010	12:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103491026005B	12/23/2010	12:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103491026005A	12/23/2010	12:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103491026005A	12/23/2010	12:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103491026005A	12/23/2010	12:50	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103491026005A	12/23/2010	12:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103495711005	12/16/2010	07:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103495708006	12/15/2010	20:01	Annamaria Stipkovits	1
05708	SW SW846 ICP Digest	SW-846 3050B	2	103555708001	12/21/2010	12:28	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103491026005	12/15/2010	20:03	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103495711005	12/15/2010	22:15	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10362362201B	12/30/2010	03:24	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10362362201B	12/30/2010	03:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10362362201B	12/29/2010	07:54	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10358243201A	12/29/2010	15:43	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010	18:44	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10362362201B	12/28/2010	11:00	Erik J Frederiksen	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10362362203B	12/28/2010	14:00	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010	08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10348182104A	12/14/2010	14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10348039404A	12/14/2010	14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10358243201A	12/24/2010	07:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10357162401B	12/23/2010	21:06	Scott W Freisher	1

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B103482AA	Sample number(s): 6162941-6162942, 6162949-6162951, 6162957-6162960								
Acetone	6.7 U	6.7	8.0	ug/kg	183		32-209		
Benzene	0.10 U	0.10	4.0	ug/kg	100		80-120		
Bromobenzene	0.13 U	0.13	4.0	ug/kg	91		79-120		
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	97		79-124		
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40 U	0.40	4.0	ug/kg	95		70-120		
Bromomethane	0.25 U	0.25	4.0	ug/kg	72		32-162		
2-Butanone	1.2 U	1.2	8.0	ug/kg	133		46-153		
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	98		72-120		
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	97		75-120		
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	92		75-120		
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	101		69-122		
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13 U	0.13	4.0	ug/kg	77		37-154		
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	94		43-146		
Chloroform	0.22 U	0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33 U	0.33	4.0	ug/kg	72		54-132		
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	94		78-120		
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	96		79-120		
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	101		22-131		
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	90		58-120		
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	97		77-120		
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24 U	0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	95		79-120		
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	92		78-120		
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	94		79-120		
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	54		20-120		
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	99		73-123		
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	99		80-120		
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	98		79-120		
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	99		80-120		
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	96		80-120		
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	98		72-123		
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	91		80-120		
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	90		77-120		
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11 U	0.11	4.0	ug/kg	100		61-126		
Freon 133a	0.50 U	0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	92		57-120		
2-Hexanone	1.6 U	1.6	8.0	ug/kg	87		45-155		
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	99		76-120		
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	98		75-120		

*- Outside of specification

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	94		74-121		
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	78		61-134		
Methylene Chloride	1.3 J	0.24	4.0	ug/kg	99		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	100		77-120		
Styrene	0.10 U	0.10	4.0	ug/kg	97		76-120		
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	95		71-123		
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	99		77-120		
Toluene	0.09 J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	92		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	100		71-125		
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	96		80-120		
Trichloroethene	0.15 U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	85		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	93		71-123		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	97		79-120		
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	96		78-120		
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	76		53-120		
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17 U	0.17	4.0	ug/kg	95		80-120		

Batch number: E103493AA	Sample number(s): 6162941-6162942,6162949-6162951,6162957-6162960
1,4-Dioxane	5.0 U 5.0 15 ug/kg 108 112 70-130 4 30

Batch number: 10349SLH026	Sample number(s): 6162941-6162945,6162947-6162960
Acenaphthene	0.67 U 0.67 1.7 ug/kg 91 63-120
Acenaphthylene	0.33 U 0.33 1.7 ug/kg 98 60-120
Anthracene	0.33 U 0.33 1.7 ug/kg 99 55-120
Benzo(a)anthracene	0.67 U 0.67 1.7 ug/kg 98 74-120
Benzo(a)pyrene	0.67 U 0.67 1.7 ug/kg 96 58-129
Benzo(b)fluoranthene	0.67 U 0.67 1.7 ug/kg 108 63-143
Benzo(g,h,i)perylene	0.67 U 0.67 1.7 ug/kg 95 44-138
Benzo(k)fluoranthene	0.67 U 0.67 1.7 ug/kg 95 66-137
Butylbenzylphthalate	6.0 U 6.0 18 ug/kg 113 65-131
Di-n-butylphthalate	6.1 J 6.0 18 ug/kg 112 84-132
Chrysene	0.33 U 0.33 1.7 ug/kg 96 79-120
Dibenz(a,h)anthracene	0.67 U 0.67 1.7 ug/kg 92 62-142
Diethylphthalate	6.0 U 6.0 18 ug/kg 111 68-125
Dimethylphthalate	6.0 U 6.0 18 ug/kg 105 70-130
Bis(2-Ethylhexyl)phthalate	6.7 J 6.0 18 ug/kg 123 67-143
Fluoranthene	0.67 U 0.67 1.7 ug/kg 103 78-120
Fluorene	0.67 U 0.67 1.7 ug/kg 99 71-120
Indeno(1,2,3-cd)pyrene	0.67 U 0.67 1.7 ug/kg 92 62-141
1-Methylnaphthalene	0.67 U 0.67 1.7 ug/kg 96 72-120
2-Methylnaphthalene	0.67 U 0.67 1.7 ug/kg 86 62-120
Naphthalene	0.67 U 0.67 1.7 ug/kg 90 67-120
N-Nitrosodimethylamine	0.67 U 0.67 1.7 ug/kg 97 39-148
Di-n-octylphthalate	6.0 U 6.0 18 ug/kg 106 55-176
Phenanthrene	0.67 U 0.67 1.7 ug/kg 96 75-120
Pyrene	0.67 U 0.67 1.7 ug/kg 101 56-121

Batch number: 10350SLB026	Sample number(s): 6162941-6162945,6162947-6162960
Acenaphthene	17 U 17. 170 ug/kg 95 76-111
Acenaphthylene	17 U 17. 170 ug/kg 99 75-122
Aniline	170 U 170. 500 ug/kg 61 10-107
Anthracene	17 U 17. 170 ug/kg 96 76-112

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Benzenidine	1,200 U	1,200.	3,300	ug/kg	43		15-121		
Benzo(a)anthracene	17	U 17.	170	ug/kg	94		73-112		
Benzo(a)pyrene	17	U 17.	170	ug/kg	87		69-122		
Benzo(b)fluoranthene	17	U 17.	170	ug/kg	80		61-127		
Benzo(g,h,i)perylene	17	U 17.	170	ug/kg	82		65-122		
Benzo(k)fluoranthene	17	U 17.	170	ug/kg	96		67-125		
Benzoic acid	170 U	170.	500	ug/kg	98		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	100		68-111		
4-Bromophenyl-phenylether	17	U 17.	170	ug/kg	92		79-117		
Butylbenzylphthalate	17	U 17.	170	ug/kg	100		75-115		
Di-n-butylphthalate	17	U 17.	170	ug/kg	97		79-112		
Carbazole	17	U 17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33	U 33.	170	ug/kg	98		74-119		
4-Chloroaniline	67	U 67.	170	ug/kg	41		10-110		
bis(2-Chloroethoxy)methane	17	U 17.	170	ug/kg	93		70-118		
bis(2-Chloroethyl)ether	17	U 17.	170	ug/kg	95		70-104		
bis(2-Chloroisopropyl)ether	17	U 17.	170	ug/kg	97		68-131		
2-Chloronaphthalene	17	U 17.	170	ug/kg	70		67-127		
2-Chlorophenol	17	U 17.	170	ug/kg	100		72-112		
4-Chlorophenyl-phenylether	33	U 33.	170	ug/kg	95		79-110		
Chrysene	17	U 17.	170	ug/kg	95		76-113		
Dibenz(a,h)anthracene	17	U 17.	170	ug/kg	83		70-128		
Dibenzofuran	17	U 17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17	U 17.	170	ug/kg	90		79-102		
1,3-Dichlorobenzene	17	U 17.	170	ug/kg	88		70-98		
1,4-Dichlorobenzene	17	U 17.	170	ug/kg	88		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	49		38-105		
2,4-Dichlorophenol	17	U 17.	170	ug/kg	103		75-111		
Diethylphthalate	17	U 17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33	U 33.	170	ug/kg	101		72-111		
3,5-Dimethylphenol	33	U 33.	170	ug/kg	101		70-130		
Dimethylphthalate	17	U 17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	72		37-120		
2,4-Dinitrotoluene	33	U 33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17	U 17.	170	ug/kg	95		79-115		
1,2-Diphenylhydrazine	17	U 17.	170	ug/kg	103		77-111		
bis(2-Ethylhexyl)phthalate	17	U 17.	330	ug/kg	98		75-117		
Fluoranthene	17	U 17.	170	ug/kg	97		78-116		
Fluorene	17	U 17.	170	ug/kg	98		75-116		
Hexachlorobenzene	17	U 17.	170	ug/kg	94		78-116		
Hexachlorobutadiene	67	U 67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	79		46-115		
Hexachloroethane	17	U 17.	170	ug/kg	84		68-105		
Indeno(1,2,3-cd)pyrene	17	U 17.	170	ug/kg	84		64-119		
Isophorone	17	U 17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U 17.	170	ug/kg	96		74-105		
2-Methylnaphthalene	17	U 17.	170	ug/kg	89		76-105		
2-Methylphenol	33	U 33.	170	ug/kg	103		66-110		
4-Methylphenol	33	U 33.	170	ug/kg	100		66-117		
Naphthalene	17	U 17.	170	ug/kg	92		73-106		

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
2-Nitroaniline	17 U	17.	170	ug/kg	96		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	70		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	91		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	88		56-118		
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	95		63-107		
N-Nitrosodimethylamine	33 U	33.	170	ug/kg	96		60-106		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	98		67-141		
Di-n-octylphthalate	17 U	17.	170	ug/kg	96		68-130		
Pentachlorophenol	170 U	170.	500	ug/kg	69		35-106		
Phenanthrene	17 U	17.	170	ug/kg	96		77-113		
Phenol	17 U	17.	170	ug/kg	96		58-112		
Pyrene	17 U	17.	170	ug/kg	98		75-115		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33 U	33.	170	ug/kg	92		76-107		
2,4,6-Trichlorophenol	33 U	33.	170	ug/kg	93		78-111		
Batch number: 10354SLC026	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960								
N-Nitrosodimethylamine	16.7 U	16.7	33.3	ng/kg	80		70-130		
Batch number: 10340B34B	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960								
9a TPH by EPA 8015B Gas C5-C12	0.2 U	0.2	1.0	mg/kg	72	78	67-119	8	30
Batch number: 103480012A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960								
4-Amino-2,6-Dinitrotoluene	75 U	75.	150	ug/kg	108		80-120		
2-Amino-4,6-Dinitrotoluene	50 U	50.	150	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	100 U	100.	300	ug/kg	95	96	54-134	1	30
2,4-Diamino-6-nitrotoluene	100 U	100.	300	ug/kg	95	96	54-134	1	30
1,3-Dinitrobenzene	50 U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50 U	50.	150	ug/kg	103		72-135		
2,6-Dinitrotoluene	50 U	50.	150	ug/kg	110		80-120		
HMX	130 U	130.	380	ug/kg	93		74-130		
Nitrobenzene	50 U	50.	150	ug/kg	105		80-120		
Nitroglycerin	1,000 U	1,000.	3,000	ug/kg	94		80-120		
2-Nitrotoluene	100 U	100.	150	ug/kg	107		78-128		
3-Nitrotoluene	130 U	130.	150	ug/kg	108		73-127		
4-Nitrotoluene	100 U	100.	150	ug/kg	107		80-120		
PETN	1,000 U	1,000.	3,000	ug/kg	105		80-120		
RDX	63 U	63.	150	ug/kg	105		75-131		
Tetryl	77 U	77.	150	ug/kg	115		70-168		
1,3,5-Trinitrobenzene	50 U	50.	150	ug/kg	115		77-137		
2,4,6-Trinitrotoluene	50 U	50.	150	ug/kg	109		80-120		
Batch number: 103480007A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960								
17a Formaldehyde by 8315A	600 U	600.	1,500	ug/kg	99		80-126		

*- Outside of specification

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

 Client Name: CDM Federal Programs Corp.
 Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 103510024A	Sample number(s): 6162943-6162945,6162947-6162948,6162953-6162956								
2,4-D	1.2 U	1.2	3.6	ug/kg	121		40-140		
Dalapon	4.4 U	4.4	9.0	ug/kg	82		24-89		
2,4-DB	0.62 U	0.62	1.7	ug/kg	101		34-138		
Dicamba	0.40 U	0.40	1.2	ug/kg	96		20-164		
Dinoseb	0.80 U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80 U	0.80	1.7	ug/kg	109		60-141		
MCPA	76 U	76.	250	ug/kg	94		34-113		
MCPP (Mecoprop)	220 U	220.	250	ug/kg	117		29-154		
2,4,5-T	0.082 U	0.082	0.17	ug/kg	108		33-145		
2,4,5-TP	0.075 U	0.075	0.17	ug/kg	98		48-138		
Batch number: 103500026A	Sample number(s): 6162941-6162945,6162947-6162960								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	58*	48*	75-125	19	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	97		72-120		
PCB-1221	0.50 U	0.50	1.7	ug/kg					
PCB-1232	0.52 U	0.52	1.7	ug/kg					
PCB-1242	0.50 U	0.50	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.33 U	0.33	1.7	ug/kg	113		65-137		
PCB-1262	0.33 U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	0.33	1.7	ug/kg					
Batch number: 103510029A	Sample number(s): 6162943-6162945,6162947-6162948,6162953-6162956								
Aldrin	0.066 U	0.066	0.17	ug/kg	87		44-135		
Alpha BHC	0.034 U	0.034	0.17	ug/kg	103		38-130		
Beta BHC	0.060 U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034 U	0.034	0.17	ug/kg	106		46-127		
Chlordane	0.80 U	0.80	3.4	ug/kg					
p,p-DDD	0.066 U	0.066	0.34	ug/kg	104		60-137		
p,p-DDE	0.066 U	0.066	0.34	ug/kg	105		59-141		
p,p-DDT	0.066 U	0.066	0.34	ug/kg	126		54-130		
Delta BHC	0.036 U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066 U	0.066	0.34	ug/kg	101		65-129		
Endosulfan I	0.044 U	0.044	0.17	ug/kg	97		45-123		
Endosulfan II	0.066 U	0.066	0.34	ug/kg	100		63-127		
Endosulfan Sulfate	0.066 U	0.066	0.34	ug/kg	111		72-138		
Endrin	0.066 U	0.066	0.34	ug/kg	118		62-129		
Endrin Aldehyde	0.066 U	0.066	0.34	ug/kg	95		55-132		
Endrin Ketone	0.066 U	0.066	0.34	ug/kg	113		69-139		
Heptachlor	0.060 U	0.060	0.17	ug/kg	121		43-124		
Heptachlor Epoxide	0.034 U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34 U	0.34	1.7	ug/kg	131*		59-125		
Mirex	0.066 U	0.066	0.34	ug/kg					
Toxaphene	2.2 U	2.2	6.6	ug/kg					
Batch number: 103570006A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960								
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	94		66-113		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	98		66-113		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	100		66-113		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	89		66-113		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	75		66-113		
Batch number: 103480003A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960								

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Ethanol	100 U	100.	500	ug/kg	86		75-112		
Isopropanol	100 U	100.	500	ug/kg	88		75-125		
Methanol	100 U	100.	500	ug/kg	87		75-134		
Batch number: 103480019A	Sample number(s): 6162941-6162942, 6162949-6162950, 6162957-6162960								
Diethylene glycol	5.0 U	5.0	13	mg/kg	92		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	85		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	93		75-125		
Batch number: 103550026A	Sample number(s): 6162942, 6162949-6162950, 6162957-6162960								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	99		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	98		75-125		
Batch number: 103570035A	Sample number(s): 6162941								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	106	101	75-125	5	20
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	110	105	75-125	4	20
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	105	99	75-125	5	20
Batch number: 103491026005A	Sample number(s): 6162941-6162960								
Antimony	0.0600 U	0.0600	0.200	mg/kg	113		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	89		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	89		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	91		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	91		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	93		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	93		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	91		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	98		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	94		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	94		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	91		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	88		78-122		
Batch number: 103491026005B	Sample number(s): 6162941-6162960								
Selenium	0.0400 U	0.0400	0.400	mg/kg	90		79-122		
Batch number: 103491026005C	Sample number(s): 6162941-6162960								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	98		78-122		
Batch number: 103491026005D	Sample number(s): 6162941-6162960								
Barium	0.108 U	0.108	0.400	mg/kg	94		79-121		
Batch number: 103495708006	Sample number(s): 6162941-6162960								
Aluminum	5.03 U	5.03	20.0	mg/kg	76		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	86		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	95		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	92		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	106		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	91		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	100		81-119		
Phosphorus	1.38 J	0.560	10.0	mg/kg	102		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	92		78-110		
Sodium	37.3 U	37.3	100	mg/kg	94		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	104		79-121		

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Tin	1.13 J	1.00	10.0	mg/kg	107		90-114		
Zirconium	0.840 U	0.840	5.00	mg/kg	104		80-120		
Batch number: 103495711005 Mercury	0.0028 U	0.0028	0.0985	mg/kg	103		88-123		
Batch number: 103555708001 Titanium	0.373 U	0.373	0.980	mg/kg	107		80-120		
Batch number: 10357357201B 7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	107		85-115		
Batch number: 10358243201A 3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	94		80-120		
Batch number: 10361102201A 21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	101		80-120		
Batch number: 10362362201A 11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	107		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	105		90-110		
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	101		85-115		
Batch number: 10362362201B 11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	107		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	105		90-110		
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	101		85-115		
Batch number: 10348039403A 22a pH by 9045C					100		95-105		
Batch number: 10348039403B 22a pH by 9045C					100		95-105		
Batch number: 10348039404A 22a pH by 9045C					101		95-105		
Batch number: 10348182103A Oxidation Reduction Potential					99		98-102		
Batch number: 10348182103B Oxidation Reduction Potential					99		98-102		
Batch number: 10348182104A Oxidation Reduction Potential					99		98-102		
Batch number: 10349162402A 28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
Batch number: 10357162401B 28a Moisture Content by 160.3					99		80-120		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: B103482AA	Sample number(s): 6162941-6162942,6162949-6162951,6162957-6162960 UNSPK: P163871							
Acetone	169	181	15-210	3	30			
Benzene	99	95	55-143	8	30			
Bromobenzene	87	77	43-139	16	30			
Bromochloromethane	97	91	60-137	10	30			
Bromodichloromethane	96	90	53-136	10	30			
Bromoform	85	81	38-124	9	30			
Bromomethane	72	64	42-168	16	30			
2-Butanone	114	120	37-163	1	30			
n-Butylbenzene	82	67	30-146	24	30			
sec-Butylbenzene	87	73	33-157	21	30			
tert-Butylbenzene	88	74	41-152	20	30			
Carbon Tetrachloride	102	96	45-153	10	30			
Chlorobenzene	92	83	49-135	15	30			
Chloroethane	78	68	39-152	18	30			
2-Chloroethyl Vinyl Ether	84	89	32-139	2	30			
Chloroform	103	96	61-142	10	30			
Chloromethane	77	72	51-163	10	30			
2-Chlorotoluene	89	77	42-146	18	30			
4-Chlorotoluene	88	75	39-145	19	30			
Chlorotrifluoroethene	104	104	70-130	2	30			
1,2-Dibromo-3-chloropropane	79	77	30-139	7	30			
Dibromochloromethane	93	88	51-128	10	30			
1,2-Dibromoethane	88	86	54-129	6	30			
Dibromomethane	94	90	57-130	8	30			
1,2-Dichlorobenzene	83	71	36-133	19	30			
1,3-Dichlorobenzene	81	69	34-134	19	30			
1,4-Dichlorobenzene	82	70	35-136	19	30			
Dichlorodifluoromethane	53	50	26-151	11	30			
1,1-Dichloroethane	101	96	63-142	9	30			
1,2-Dichloroethane	98	94	68-131	8	30			
1,1-Dichloroethene	101	97	61-149	7	30			
cis-1,2-Dichloroethene	98	93	60-136	9	30			
trans-1,2-Dichloroethene	99	92	59-142	11	30			
1,2-Dichloropropane	98	93	62-135	9	30			
1,3-Dichloropropane	94	90	58-129	8	30			
2,2-Dichloropropane	96	92	53-147	8	30			
1,1-Dichloropropene	97	93	54-145	8	30			
cis-1,3-Dichloropropene	85	83	51-131	6	30			
trans-1,3-Dichloropropene	87	83	49-129	8	30			
Ethylbenzene	92	83	44-141	15	30			
Freon 113	102	95	56-156	11	30			
Freon 133a	90	94	70-130	6	30			
Hexachlorobutadiene	65	51	10-155	28	30			
2-Hexanone	76	80	32-160	0	30			
Isopropylbenzene	89	78	38-144	17	30			
p-Isopropyltoluene	85	71	29-152	21	30			
Methyl Tertiary Butyl Ether	88	87	55-129	4	30			
4-Methyl-2-pentanone	66	70	46-139	3	30			
Methylene Chloride	99	87	61-141	16	30			
n-Propylbenzene	92	80	39-157	17	30			
Styrene	89	79	35-134	16	30			

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,1,1,2-Tetrachloroethane	97	87	52-130	15	30				
1,1,2,2-Tetrachloroethane	90	87	40-152	7	30				
Tetrachloroethene	94	84	42-149	14	30				
Toluene	97	90	50-146	11	30				
1,2,3-Trichlorobenzene	60	50	10-140	21	30				
1,2,4-Trichlorobenzene	61	50	10-136	24	30				
1,1,1-Trichloroethane	101	95	64-142	9	30				
1,1,2-Trichloroethane	93	89	54-139	9	30				
Trichloroethene	95	90	53-144	9	30				
Trichlorofluoromethane	88	81	47-163	12	30				
1,2,3-Trichloropropane	90	88	45-154	5	30				
1,2,4-Trimethylbenzene	89	76	37-149	19	30				
1,3,5-Trimethylbenzene	89	77	38-150	18	30				
Vinyl Chloride	78	74	50-154	9	30				
m+p-Xylene	93	82	44-137	16	30				
o-Xylene	88	78	42-137	16	30				
Batch number: E103493AA Sample number(s): 6162941-6162942,6162949-6162951,6162957-6162960 UNSPK: P163871									
1,4-Dioxane	104	95	70-130	9	30				
Batch number: 10349SLH026 Sample number(s): 6162941-6162945,6162947-6162960 UNSPK: 6162943									
Acenaphthene	95	94	63-105	2	30				
Acenaphthylene	98	99	55-126	0	30				
Anthracene	100	98	46-136	2	30				
Benzo(a)anthracene	99	99	39-144	1	30				
Benzo(a)pyrene	94	94	34-156	1	30				
Benzo(b)fluoranthene	103	102	43-155	1	30				
Benzo(g,h,i)perylene	69	70	33-141	1	30				
Benzo(k)fluoranthene	82	80	42-144	2	30				
Butylbenzylphthalate	113	113	73-140	0	30				
Di-n-butylphthalate	95	95	78-160	0	30				
Chrysene	92	91	29-156	0	30				
Dibenz(a,h)anthracene	83	82	41-130	1	30				
Diethylphthalate	112	114	87-131	2	30				
Dimethylphthalate	106	106	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	226*	73	39-167	76*	30				
Fluoranthene	105	100	26-166	4	30				
Fluorene	101	102	45-121	1	30				
Indeno(1,2,3-cd)pyrene	80	78	21-143	2	30				
1-Methylnaphthalene	97	96	72-123	1	30				
2-Methylnaphthalene	88	87	28-121	1	30				
Naphthalene	92	92	61-102	1	30				
N-Nitrosodimethylamine	102	101	48-113	1	30				
Di-n-octylphthalate	106	105	40-192	1	30				
Phenanthrene	92	91	12-165	1	30				
Pyrene	88	89	15-153	2	30				
Batch number: 10350SLB026 Sample number(s): 6162941-6162945,6162947-6162960 UNSPK: 6162943									
Acenaphthene	96	93	75-115	3	30				
Acenaphthylene	100	96	49-126	3	30				
Aniline	55	75	14-114	31*	30				
Anthracene	95	95	75-115	0	30				
Benzidine	39	47	35-141	19	30				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

Sample Matrix Quality Control

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

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Benzo(a)anthracene	95	93	65-122	2	30				
Benzo(a)pyrene	87	87	57-126	0	30				
Benzo(b)fluoranthene	86	88	59-125	3	30				
Benzo(g,h,i)perylene	85	83	59-127	2	30				
Benzo(k)fluoranthene	91	87	56-132	4	30				
Benzoic acid	49	23	10-173	71*	30				
Benzyl alcohol	101	100	55-123	1	30				
4-Bromophenyl-phenylether	88	87	67-129	1	30				
Butylbenzylphthalate	102	101	73-134	1	30				
Di-n-butylphthalate	97	95	67-123	1	30				
Carbazole	98	95	64-120	3	30				
4-Chloro-3-methylphenol	99	97	53-130	3	30				
4-Chloroaniline	55	68	23-95	22	30				
bis(2-Chloroethoxy)methane	94	92	54-117	3	30				
bis(2-Chloroethyl)ether	97	93	60-116	5	30				
bis(2-Chloroisopropyl)ether	97	95	55-142	2	30				
2-Chloronaphthalene	93	92	50-141	1	30				
2-Chlorophenol	100	100	73-121	1	30				
4-Chlorophenyl-phenylether	94	93	64-119	1	30				
Chrysene	98	96	62-128	2	30				
Dibenz(a,h)anthracene	84	83	65-125	1	30				
Dibenzofuran	97	96	71-112	1	30				
1,2-Dichlorobenzene	90	88	66-108	3	30				
1,3-Dichlorobenzene	87	88	63-109	1	30				
1,4-Dichlorobenzene	88	89	53-113	1	30				
3,3'-Dichlorobenzidine	42	63	25-123	40*	30				
2,4-Dichlorophenol	100	101	78-117	1	30				
Diethylphthalate	100	95	66-118	5	30				
2,4-Dimethylphenol	102	102	56-130	0	30				
3,5-Dimethylphenol	101	98	70-130	3	30				
Dimethylphthalate	98	94	64-118	5	30				
4,6-Dinitro-2-methylphenol	74	77	10-148	5	30				
2,4-Dinitrophenol	56	57	20-143	2	30				
2,4-Dinitrotoluene	99	94	57-114	5	30				
2,6-Dinitrotoluene	97	95	69-123	2	30				
1,2-Diphenylhydrazine	100	99	71-129	1	30				
bis(2-Ethylhexyl)phthalate	99	98	63-122	2	30				
Fluoranthene	97	96	59-122	2	30				
Fluorene	98	96	60-125	2	30				
Hexachlorobenzene	91	91	61-111	0	30				
Hexachlorobutadiene	82	84	62-120	2	30				
Hexachlorocyclopentadiene	70	64	10-153	9	30				
Hexachloroethane	85	86	57-109	1	30				
Indeno(1,2,3-cd)pyrene	85	83	61-126	3	30				
Isophorone	95	95	51-118	1	30				
1-Methylnaphthalene	96	97	73-112	1	30				
2-Methylnaphthalene	88	89	76-114	0	30				
2-Methylphenol	103	101	47-142	2	30				
4-Methylphenol	98	99	55-126	1	30				
Naphthalene	91	92	72-116	1	30				
2-Nitroaniline	96	93	67-125	3	30				
3-Nitroaniline	91	91	59-122	0	30				
4-Nitroaniline	75	76	52-112	1	30				

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Quality Control Summary

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 Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Nitrobenzene	92	90	51-114	3	30				
2-Nitrophenol	89	89	74-115	0	30				
4-Nitrophenol	91	87	39-133	5	30				
N-Nitroso-di-n-propylamine	97	95	60-116	2	30				
N-Nitrosodimethylamine	95	96	47-116	1	30				
N-Nitrosodiphenylamine	95	94	86-145	1	30				
Di-n-octylphthalate	96	97	56-126	1	30				
Pentachlorophenol	65	65	17-149	1	30				
Phenanthrene	95	94	65-125	1	30				
Phenol	97	94	58-126	4	30				
Pyrene	101	98	51-151	3	30				
1,2,4-Trichlorobenzene	88	89	72-115	1	30				
2,4,5-Trichlorophenol	93	90	34-139	4	30				
2,4,6-Trichlorophenol	94	91	49-140	3	30				
Batch number: 10354SLC026 Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P163871									
N-Nitrosodimethylamine	76	66*	70-130	13	30				
Batch number: 10340B34B Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P156146									
9a TPH by EPA 8015B Gas C5-C12	82	72	39-118	19	30				
Batch number: 103480012A Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P162818									
4-Amino-2,6-Dinitrotoluene	104	96	80-127	8	50				
2-Amino-4,6-Dinitrotoluene	103	95	80-137	7	50				
1,3-Dinitrobenzene	103	97	38-166	6	50				
2,4-Dinitrotoluene	100	94	80-131	6	50				
2,6-Dinitrotoluene	105	99	80-127	6	50				
HMX	92	81	63-128	12	50				
Nitrobenzene	103	98	80-125	5	50				
Nitroglycerin	92	86	80-120	7	50				
2-Nitrotoluene	106	100	80-122	6	50				
3-Nitrotoluene	106	100	72-119	6	50				
4-Nitrotoluene	105	99	80-125	6	50				
PETN	103	94	80-121	9	50				
RDX	95	84	75-129	13	50				
Tetryl	106	90	55-174	16	50				
1,3,5-Trinitrobenzene	110	102	82-126	8	50				
2,4,6-Trinitrotoluene	103	96	82-130	7	50				
Batch number: 103480007A Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P162812									
17a Formaldehyde by 8315A	29*	26*	80-120	3	50				
Batch number: 103510024A Sample number(s): 6162943-6162945,6162947-6162948,6162953-6162956 UNSPK: 6162943									
2,4-D	99	97	28-161	2	35				
Dalapon	80	85	12-86	7	50				
2,4-DB	115	115	20-170	0	50				
Dicamba	110	113	33-120	3	50				
Dinoseb	10	12	1-44	12	35				
2,4-DP (Dichlorprop)	102	102	55-141	0	50				
MCPA	111	129	31-184	15	50				
MCPP (Mecoprop)	126	125	16-174	1	50				
2,4,5-T	87	94	25-132	8	35				
2,4,5-TP	81	83	10-183	3	35				

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Quality Control Summary

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 Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

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<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD RPD</u>	<u>BKG MAX Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 103500026A	Sample number(s): 6162941-6162945,6162947-6162960 UNSPK: 6162943							
PCB-1016	99	99	29-146	0	50			
PCB-1260	84	89	39-149	5	50			
Batch number: 103510029A	Sample number(s): 6162943-6162945,6162947-6162948,6162953-6162956 UNSPK: 6162943							
Aldrin	77	87	16-126	12	50			
Alpha BHC	100	109	10-129	9	50			
Beta BHC	88	97	14-147	10	50			
Gamma BHC - Lindane	100	109	10-140	9	50			
p,p-DDD	80	88	16-163	10	50			
p,p-DDE	90	102	18-161	12	50			
p,p-DDT	103	116	10-176	12	50			
Delta BHC	94	106	23-140	13	50			
Dieldrin	76	84	19-154	10	50			
Endosulfan I	76	82	16-137	8	50			
Endosulfan II	70	76	28-154	9	50			
Endosulfan Sulfate	86	94	21-160	9	50			
Endrin	88	99	11-149	11	50			
Endrin Aldehyde	77	87	10-148	12	35			
Endrin Ketone	82	85	22-165	4	50			
Heptachlor	118	136*	13-126	14	50			
Heptachlor Epoxide	81	90	13-157	11	50			
Methoxychlor	102	114	32-147	11	50			
Batch number: 103570006A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: 6162942							
EFH (C12-C14)	88	86	49-123	3	20			
EFH (C15-C20)	172*	137*	49-123	23*	20			
EFH (C21-C30)	799*	504*	49-123	29*	20			
EFH (C30 - C40)	1486	1361	49-123	6	20			
	(2)	(2)						
EFH (C8-C11)	61	62	49-123	2	20			
Batch number: 103480003A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P162876							
Ethanol	89	102	24-143	13	20			
Isopropanol	88	91	75-125	4	20			
Methanol	90	115	45-136	25*	20			
Batch number: 103480019A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P162876							
Diethylene glycol	18*	27*	59-109	40*	20			
Ethylene glycol	57*	62*	63-107	9	20			
Propylene glycol	50*	52*	63-107	3	20			
Batch number: 103550026A	Sample number(s): 6162942,6162949-6162950,6162957-6162960 UNSPK: P163871							
m-Terphenyl	90	88	75-125	3	20			
o-Terphenyl	93	91	75-125	2	20			
p-Terphenyl	95	93	75-125	2	20			
Batch number: 103491026005A	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943							
Antimony	85	71*	75-125	13	20	0.350	0.105 J	108* (1) 20
Arsenic	183*	140*	75-125	14	20	3.09	2.68	14 20
Beryllium	128*	117	75-125	8	20	0.154	0.113	31* (1) 20
Cadmium	149*	136*	75-125	9	20	0.0944 J	0.0624 J	41* (1) 20

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Quality Control Summary

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Chromium	157*	117	75-125	16	20	12.7	9.62	27*	20
Cobalt	135*	119	75-125	13	20	2.24	1.77	24*	20
Copper	137*	116	75-125	14	20	3.15	2.52	22*	20
Lead	162*	137*	75-125	13	20	1.70	1.42	18	20
Nickel	144*	119	75-125	13	20	7.12	5.59	24*	20
Silver	149*	135*	75-125	11	20	0.0118 U	0.0120 U	0 (1)	20
Thallium	149*	129*	75-125	14	20	0.0578 J	0.0313 J	59* (1)	20
Vanadium	168*	140*	75-125	10	20	14.7	11.4	25*	20
Zinc	178*	143*	75-125	13	20	12.4	10.3	19 (1)	20
Batch number: 103491026005B	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Selenium	135*	110	75-125	20	20	0.185 J	0.180 J	2 (1)	20
Batch number: 103491026005C	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Molybdenum	152*	136*	75-125	11	20	0.805	0.575	33*	20
Batch number: 103491026005D	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Barium	185*	151*	75-125	9	20	20.9	17.6	17	20
Batch number: 103495708006	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Aluminum	731 (2)	616 (2)	75-125	5	20	3,590	2,870	22*	20
Boron	94	96	84-115	2	20	2.89 J	2.50 J	15 (1)	20
Calcium	803 (2)	1941 (2)	75-125	36*	20	6,980	7,400	6	20
Iron	107 (2)	-11 (2)	75-125	2	20	5,100	4,660	9	20
Lithium	103	104	82-114	1	20	3.0	2.4	23* (1)	20
Magnesium	146 (2)	123 (2)	75-125	4	20	988	883	11	20
Manganese	163*	88	75-125	23*	20	99.3	160	47*	20
Phosphorus	182*	140*	75-125	9	20	307	281	9	20
Potassium	121	118	75-125	1	20	570	524	8	20
Sodium	105	112	75-125	6	20	49.2 J	42.7 J	14 (1)	20
Strontium	109	117*	75-115	6	20	14.2	13.2	7	20
Tin	100	100	80-110	0	20	1.77 J	1.41 J	23* (1)	20
Zirconium	103	104	75-125	1	20	2.41 J	2.29 J	5 (1)	20
Batch number: 103495711005	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Mercury	90	93	65-135	4	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 103555708001	Sample number(s): 6162941-6162960 UNSPK: 6162943 BKG: 6162943								
Titanium	209*	171*	75-125	7	20	296	324	9	20
Batch number: 10357357201B	Sample number(s): 6162941-6162944,6162946-6162947 UNSPK: 6162943 BKG: 6162943								
7a Perchlorate EPA 314.0	100		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10358243201A	Sample number(s): 6162941-6162944,6162946-6162960 UNSPK: 6162943 BKG: 6162943								
3a Cr VI by EPA 7199	90		75-125			0.20 U	0.20 U	0 (1)	20
Batch number: 10361102201A	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 UNSPK: P163871								
21a Cyanide by 9012B	109		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 10362362201A	Sample number(s): 6162941-6162944,6162946-6162957 UNSPK: 6162943, 6162948 BKG: 6162943, 6162948								

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11a Anions by 300.0 - Fluoride	89		80-120		0.80 U	1.2		200* (1)	20
11a Anions by 300.0 - Nitrate	79*		80-120		1.2 J	0.80 U		200* (1)	20
7a Perchlorate EPA 314.0	109		80-120		9.0 U	9.0 U		0 (1)	15
Batch number: 10362362201B	Sample number(s): 6162954-6162960 UNSPK: 6162958, 6162960 BKG: 6162958, 6162960								
11a Anions by 300.0 - Fluoride	72*		80-120		4.7	5.8		21* (1)	20
11a Anions by 300.0 - Nitrate	102		80-120		0.80 U	0.85 J		200* (1)	20
7a Perchlorate EPA 314.0	110		80-120		9.0 U	9.0 U		0 (1)	15
Batch number: 10348039403A	Sample number(s): 6162941-6162942 BKG: P162917								
22a pH by 9045C					8.50	8.52		0	1
Batch number: 10348039403B	Sample number(s): 6162943,6162946-6162958 BKG: 6162943								
22a pH by 9045C					8.71	8.73		0	1
Batch number: 10348039404A	Sample number(s): 6162959-6162960 BKG: 6162959								
22a pH by 9045C					8.20	8.21		0	1
Batch number: 10348182103A	Sample number(s): 6162941-6162942 BKG: P162917								
Oxidation Reduction Potential					389	391		0	6
Batch number: 10348182103B	Sample number(s): 6162943,6162946-6162958 BKG: 6162943								
Oxidation Reduction Potential					439	439		0	6
Batch number: 10348182104A	Sample number(s): 6162959-6162960 BKG: 6162959								
Oxidation Reduction Potential					417	416		0	6
Batch number: 10349162402A	Sample number(s): 6162943-6162948,6162951-6162956 BKG: 6162943								
28a Moisture Content by 160.3					4.3	4.4		3	20
28a Moisture Content by 160.3					4.3	4.4		3	20
28a Moisture Content by 160.3					4.3	4.4		3	20
Batch number: 10357162401B	Sample number(s): 6162941-6162942,6162949-6162950,6162957-6162960 BKG: 6162958								
28a Moisture Content by 160.3					9.1	9.2		0	20

Surrogate Quality Control

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

Analysis Name: 1a Volatile Organics EPA 8260B

Batch number: B103482AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6162941	105	103	96	93
6162942	106	104	95	92
6162949	106	101	98	92
6162950	105	103	96	92
6162951	107	108	96	92
6162957	106	101	98	90

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Surrogate Quality Control

6162958	105	100	97	89
6162959	104	101	97	90
6162960	105	100	97	90
Blank	104	102	96	92
LCS	101	105	100	100
MS	100	100	102	98
MSD	101	103	101	98

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

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103493AA
Toluene-d8

6162941	101
6162942	101
6162949	100
6162950	100
6162951	101
6162957	100
6162958	100
6162959	101
6162960	101
Blank	99
LCS	99
LCSD	101
MS	101
MSD	100

Limits: 70-130

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10349SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162941	94	83	85
6162942	95	83	89
6162943	94	84	91
6162944	95	85	85
6162945	97	85	89
6162947	115	91	103
6162948	93	84	91
6162949	94	83	87
6162950	90	80	90
6162951	87	78	84
6162952	71	63	89
6162953	95	83	94
6162954	97	85	91
6162955	97	86	99
6162956	94	81	92
6162957	91	84	93
6162958	91	83	92
6162959	96	83	94
6162960	93	84	93
Blank	88	83	96
LCS	93	83	95
MS	95	85	85
MSD	97	85	89

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Group Number: 1225039

Surrogate Quality Control

Limits:	40-130	45-130	45-135			
Analysis Name: 5a Semivolatiles by EPA 8270C						
Batch number: 10350SLB026						
	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6162941	93	88	79	80	80	81
6162942	96	93	83	84	86	88
6162943	92	90	84	84	82	82
6162944	99	94	88	87	89	86
6162945	97	93	85	85	86	83
6162947	96	92	82	85	88	84
6162948	96	93	84	85	89	87
6162949	94	90	81	86	88	86
6162950	96	93	78	84	86	88
6162951	90	86	76	79	81	86
6162952	91	88	76	81	84	84
6162953	96	93	79	84	86	88
6162954	100	96	82	87	90	89
6162955	96	93	82	86	87	85
6162956	93	91	80	82	85	85
6162957	92	87	75	82	84	83
6162958	90	87	74	82	86	86
6162959	95	91	81	83	85	84
6162960	96	93	79	85	88	85
Blank	94	93	90	88	90	86
LCS	98	95	87	87	89	84
MS	99	94	88	87	89	86
MSD	97	93	85	85	86	83
Limits:	25-120	25-130	35-130	40-130	45-130	45-135
Analysis Name: 19a NDMA by 1625C						
Batch number: 10354SLC026						
N-Nitrosodimethylamine-d6						
6162941	103					
6162942	105					
6162949	156*					
6162950	150					
6162957	98					
6162958	106					
6162959	107					
6162960	148					
Blank	118					
LCS	118					
MS	101					
MSD	97					
Limits:	50-150					
Analysis Name: 9a TPH by EPA 8015B Gas C5-C12						
Batch number: 10340B34B						
Trifluorotoluene-F						

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Surrogate Quality Control

6162941	94
6162942	91
6162949	92
6162950	89
6162957	88
6162958	89
6162959	89
6162960	89
Blank	98
LCS	93
LCSD	99
MS	94
MSD	85

Limits: 61-122

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103480007A
Butyraldehyde

6162941	105
6162942	105
6162949	104
6162950	104
6162957	102
6162958	106
6162959	96
6162960	103
Blank	102
LCS	100
MS	102
MSD	99

Limits: 64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 103480012A
2-Nitro-m-xylene

6162941	114
6162942	107
6162949	114
6162950	115
6162957	108
6162958	113
6162959	108
6162960	104
Blank	116
LCS	116
LCSD	113
MS	114
MSD	105

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103500026A

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

Surrogate Quality Control

	Tetrachloro-m-xylene	Decachlorobiphenyl
6162941	118	113
6162942	113	104
6162943	118	125*
6162944	114	114
6162945	114	119
6162947	125	109
6162948	115	114
6162949	101	101
6162950	112	107
6162951	107	107
6162952	97	103
6162953	123	129*
6162954	118	97
6162955	121	82
6162956	116	96
6162957	104	107
6162958	113	97
6162959	116	103
6162960	112	107
Blank	102	114
LCS	110	126*
LCSD	93	117
MS	114	114
MSD	114	119
<hr/>		
Limits:	53-139	45-120

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103510024A
2,4-Dichlorophenylacetic
acid

6162943	92	
6162944	105	
6162945	75	
6162947	55	
6162948	89	
6162953	126	
6162954	95	
6162955	105	
6162956	65	
Blank	98	
LCS	113	
MS	105	
MSD	75	
<hr/>		
Limits:	36-156	

Analysis Name: 12a Pesticides by 8081A
Batch number: 103510029A
Tetrachloro-m-xylene Decachlorobiphenyl

6162943	89	61
6162944	81	80
6162945	89	79

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

Surrogate Quality Control

6162947	90	83
6162948	87	68
6162953	78	87
6162954	84	43
6162955	81	42
6162956	75	39
Blank	85	105
LCS	81	107
MS	81	80
MSD	89	79

Limits: 50-130 20-120

Analysis Name: 25a Alcohols by 8015B
Batch number: 103480003A
Acetone

6162941	86
6162942	75
6162949	79
6162950	76
6162957	74
6162958	82
6162959	74
6162960	82
Blank	88
LCS	92
MS	89
MSD	87

Limits: 42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103480019A
Tetramethylene glycol

6162941	89
6162942	86
6162949	81
6162950	85
6162957	89
6162958	80
6162959	82
6162960	80
Blank	95
LCS	96
MS	59
MSD	50

Limits: 50-119

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103550026A
n-Triacontane-d62

6162942	118
6162949	90

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/13/11 at 09:58 AM

Group Number: 1225039

Surrogate Quality Control

6162950 102
6162957 93
6162958 92
6162959 91
6162960 95
Blank 97
LCS 94
MS 91
MSD 93

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103570006A

	Chlorobenzene	Orthoterphenyl
6162941	89	97
6162942	82	86
6162949	79	93
6162950	81	89
6162957	66	80
6162958	78	86
6162959	78	88
6162960	77	89
Blank	87	94
LCS	85	94
MS	91	96
MSD	89	97

Limits: 37-125 47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103570035A
n-Triacontane-d62

6162941 99
Blank 99
LCS 100
LCSD 97

Limits: 50-150

*- Outside of specification

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

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

acct# 13013

Cap# 1225037
1225039

sample# ~~6162903-21~~
6162941-60 NJM 12/15/10
CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP																													
Samplers: (Signature) <i>Ramela Hartman</i>																													
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																								
SL-005-SA5C-SB-4.0-5.0	12.10.10	1529	soil	none	3 x 16 oz. & 3 x 4 oz. jars			X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	
SL-005-SA5C-SB-9.0-10.0	12.10.10	1539	soil	none	3 x 16 oz. & 2 x 4 oz. jars			X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	forgot to fill 3rd jar
SL-005-SA5C-SB-4.5	12.10.10	1525	soil	none	5 Encore samplers	X	X	X																					GRO was added
SL-005-SA5C-SB-9.5	12.10.10	1535	soil	none	5 Encore samplers	X	X	X																					per PB on 12/13/10
SL-008-SA5C-SB-4.5	12.10.10	1215	soil	none	4 Encore samplers	X	X																						NJM 12/13/10
SL-009-SA5C-SB-4.5	12.10.10	1415	soil	none	5 Encore samplers	X	X	X																					
SL-009-SA5C-SB-4.0-5.0	12.10.10	1419	soil	none	3 x 16 oz.			X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	4 oz. jars to be shipped on 12/13/10 PB 12.10.10	
SL-009-SA5C-SB-9.5	12.10.10	1423	soil	none	5 Encore samplers	X	X	X																					
SL-009-SA5C-SB-9.0-10.0	12.10.10	1428	soil	none	3 x 16 oz.			X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X		
SL-010-SA5C-SB-4.5	12.10.10	1050	soil	none	5 Encore samplers	X	X	X																					
SL-010-SA5C-SB-9.5	12.10.10	1059	soil	none	5 Encore samplers	X	X	X																					
SL-011-SA5C-SB-4.5	12.10.10	0935	soil	none	5 Encore samplers	X	X	X																					
SL-011-SA5C-SB-9.5	12.10.10	0943	soil	none	5 Encore samplers	X	X	X																					
Relinquished by: (Signature) <i>Benjamin</i>		Date/Time 12.10.10 1630		Received for Laboratory by: (Signature) <i>[Signature]</i>			Date/Time 12/15/10 0940																				Laboratory: Lancaster Laboratories, Inc.		
Received by: (Signature)		Date/Time		Airbill No. 00732992			Tracking Number 869514317156																				Cooler 5		

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

January 25, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/14/2010
Group Number: 1225274
SDG: DE037
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-006-SA5C-SB-9.0-10.0 Soil	6163869
DUP13-SA5C-QC-121310 Soil	6163870
SL-006-SA5C-SB-4.0-5.0 Soil	6163871
SL-006-SA5C-SB-4.0-5.0MS Soil	6163872
SL-006-SA5C-SB-4.0-5.0MSD Soil	6163873
SL-006-SA5C-SB-4.0-5.0DUP Soil	6163874
EB-15-SA5B-121310 Water	6163875
SL-007-SA5C-SB-4.0-5.0 Soil	6163876
SL-007-SA5C-SB-9.0-10.0 Soil	6163877
SL-075-SA5B-SS-0.0-0.5 Soil	6163878
SL-077-SA5B-SS-0.0-0.5 Soil	6163879
SL-085-SA5B-SS-0.0-0.5 Soil	6163880
SL-087-SA5B-SS-0.0-0.5 Soil	6163881
SL-095-SA5B-SS-0.0-0.5 Soil	6163882
SL-091-SA5B-SS-0.0-0.5 Soil	6163883
SL-003-SA5C-SB-4.0-5.0 Soil	6163884
SL-001-SA5C-SB-4.0-5.0 Soil	6163885
SL-001-SA5C-SB-9.0-10.0 Soil	6163886
SED-032-SIV-SD-0.0-0.5 Soil	6163887
SED-033-SIV-SD-0.0-0.5 Soil	6163888

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

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

Attn: Todd Burgesser

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

Respectfully Submitted,



Robin C. Runkle
Senior Specialist

Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.7 J	7.3	8.8		1.01
06192	Benzene	71-43-2	0.11 U	0.11	4.4		1.01
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.4		1.01
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.4		1.01
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.4		1.01
06192	Bromoform	75-25-2	0.44 U	0.44	4.4		1.01
06192	Bromomethane	74-83-9	0.27 U	0.27	4.4		1.01
06192	2-Butanone	78-93-3	1.3 U	1.3	8.8		1.01
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.4		1.01
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.4		1.01
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.4		1.01
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.4		1.01
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.4		1.01
06192	Chloroethane	75-00-3	0.14 U	0.14	4.4		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33 U	0.33	4.4		1.01
06192	Chloroform	67-66-3	0.13 U	0.13	4.4		1.01
06192	Chloromethane	74-87-3	0.36 U	0.36	4.4		1.01
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.4		1.01
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.4		1.01
06192	Chlorotrifluoroethene	79-38-9	0.55 U	0.55	5.5		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77 U	0.77	4.4		1.01
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.4		1.01
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.4		1.01
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.4		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.4		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.4		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.4		1.01
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.4		1.01
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.4		1.01
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.4		1.01
06192	1,1-Dichloroethene	75-35-4	0.43 U	0.43	4.4		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.4		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.4		1.01
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.4		1.01
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.4		1.01
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.4		1.01
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.4		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.4		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.4		1.01
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.4		1.01
06192	Freon 113	76-13-1	0.12 U	0.12	4.4		1.01
06192	Freon 133a	75-88-7	0.55 U	0.55	5.5		1.01
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.4		1.01
06192	2-Hexanone	591-78-6	1.8 U	1.8	8.8		1.01
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.4		1.01
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.4		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.4		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.43 U	0.43	8.8		1.01
06192	Methylene Chloride	75-09-2	1.1 J	0.26	4.4		1.01
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.4		1.01

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

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

Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.4		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.4		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.4		1.01
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.4		1.01
06192	Toluene	108-88-3	0.09 U	0.09	4.4		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.4		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.4		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.4		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.30 U	0.30	4.4		1.01
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.4		1.01
06192	Trichlorofluoromethane	75-69-4	0.32 U	0.32	4.4		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36	4.4		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.44 U	0.44	4.4		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.4		1.01
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.4		1.01
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.4		1.01
06192	o-Xylene	95-47-6	0.19 U	0.19	4.4		1.01
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.5 U	5.5	17		25.41
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	78.4	36.3	72.6		2
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	540		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U 180	540		1
04688	Benzyl alcohol	100-51-6	180	U 180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180		1
04688	4-Chloroaniline	106-47-8	73	U 73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U 730	2,200		1

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Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U 18	360		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	73	U 73	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U 0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U 0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U 0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U 0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U 0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U 0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	20		1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U 0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U 0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U 0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U 0.73	1.8		1

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Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.73 U	0.73	1.8	ug/kg	1
10138	2-Methylnaphthalene	91-57-6	0.73 U	0.73	1.8	ug/kg	1
10138	Naphthalene	91-20-3	0.73 U	0.73	1.8	ug/kg	1
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8	ug/kg	1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	20	ug/kg	1
10138	Phenanthrene	85-01-8	0.73 U	0.73	1.8	ug/kg	1
10138	Pyrene	129-00-0	0.73 U	0.73	1.8	ug/kg	1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1.0	mg/kg	22.98
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82 U	82	160	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54 U	54	160	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	330	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	330	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	54 U	54	160	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	54 U	54	160	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	54 U	54	160	1000000	1
10132	HMX	2691-41-0	140 U	140	410	1000000	1
10132	Nitrobenzene	98-95-3	54 U	54	160	1000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,300	1000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1000000	1
10132	3-Nitrotoluene	99-08-1	140 U	140	160	1000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,300	1000000	1
10132	RDX	121-82-4	68 U	68	160	1000000	1
10132	Tetryl	479-45-8	83 U	83	160	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	54 U	54	160	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54 U	54	160	1000000	1

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 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics								
		SW-846 8315A	ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by	8315A 50-00-0	990	J	650	1,600		1
Pesticides/PCBs								
		SW-846 8082	ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.9		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36	U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36	U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Miscellaneous								
		SW-846 8015B	ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	U	110	540		1
Terphenyls								
		SW-846 8015B	mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals								
		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,200		5.32	21.2		1
07914	Boron	7440-42-8	4.83	J	0.941	5.29		1
01650	Calcium	7440-70-2	2,620		6.48	21.2		1
01654	Iron	7439-89-6	18,500		4.98	21.2		1
01656	Lithium	7439-93-2	17.9		0.23	2.1		1
01657	Magnesium	7439-95-4	3,420		2.69	10.6		1
06958	Manganese	7439-96-5	233		0.0825	0.529		1
10145	Phosphorus	7723-14-0	318		0.592	10.6		1
01662	Potassium	7440-09-7	2,590		19.0	52.9		1
01667	Sodium	7440-23-5	148		39.4	106		1
07968	Strontium	7440-24-6	19.8		0.0656	0.529		1
06969	Tin	7440-31-5	2.43	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,100		0.804	2.12		2
10146	Zirconium	7440-67-7	1.68	J	0.888	5.29		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.296		0.0647	0.216		2

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Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

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 14420 Albemarle Point Place
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 Chantilly VA 20151

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	11.4	0.0647	0.431		2
06126	Barium	7440-39-3	106	0.116	0.431		2
06127	Beryllium	7440-41-7	1.30	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.248	0.0388	0.108		2
06131	Chromium	7440-47-3	50.1	0.129	0.431		2
06132	Cobalt	7440-48-4	11.1	0.0216	0.108		2
06133	Copper	7440-50-8	19.7	0.0712	0.431		2
06135	Lead	7439-92-1	13.0	0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.790	0.0539	0.108		2
06139	Nickel	7440-02-0	26.9	0.108	0.431		2
06141	Selenium	7782-49-2	0.241 J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0704 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.497	0.0324	0.108		2
06148	Vanadium	7440-62-2	93.3	0.0237	0.108		2
06149	Zinc	7440-66-6	114	0.604	3.24		2
SW-846 7471A							
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.104		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.9	0.87	1.6		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.7		1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.26 J	0.22	1.1		1
SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.54		1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	379	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
			Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.64	0.0100	0.0100		1
Wet Chemistry							
		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	8.2	0.50	0.50		1

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Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0691 SDG#: DE037-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
	EPA 160.3 modified		%	%	%	%	
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-006-SA5C-SB-9.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 03:57	Laura M Krieger	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 03:07	Sara E Johnson	25.41
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 16:54	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:42	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 16:52	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 15:55	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 01:49	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/29/2010 21:38	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 15:54	Marie D John	22.98
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:57	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 00:22	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 22:49	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 02:29	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1

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Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0691 SDG#: DE037-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103500005A	12/17/2010 18:20	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 13:17	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103500005A	12/16/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 02:52	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:15	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/24/2010 10:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 14:45	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 14:45	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 02:19	Venia B McFadden	1

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



Analysis Report

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

Sample Description: SL-006-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.5-5.0

LLI Sample # SW 6163869
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:55 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0691 SDG#: DE037-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/03/2011	22:03	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010	18:45	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011	13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011	10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010	08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010	12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010	12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010	20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010	05:26	William C Schwebel	1

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

Sample Description: DUP13-SA5C-QC-121310 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	8.4 U	8.4	10		1.1
06192	Benzene	71-43-2	0.13 U	0.13	5.1		1.1
06192	Bromobenzene	108-86-1	0.16 U	0.16	5.1		1.1
06192	Bromochloromethane	74-97-5	0.42 U	0.42	5.1		1.1
06192	Bromodichloromethane	75-27-4	0.10 U	0.10	5.1		1.1
06192	Bromoform	75-25-2	0.51 U	0.51	5.1		1.1
06192	Bromomethane	74-83-9	0.32 U	0.32	5.1		1.1
06192	2-Butanone	78-93-3	1.5 U	1.5	10		1.1
06192	n-Butylbenzene	104-51-8	0.15 U	0.15	5.1		1.1
06192	sec-Butylbenzene	135-98-8	0.08 U	0.08	5.1		1.1
06192	tert-Butylbenzene	98-06-6	0.20 U	0.20	5.1		1.1
06192	Carbon Tetrachloride	56-23-5	0.18 U	0.18	5.1		1.1
06192	Chlorobenzene	108-90-7	0.14 U	0.14	5.1		1.1
06192	Chloroethane	75-00-3	0.16 U	0.16	5.1		1.1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.38 U	0.38	5.1		1.1
06192	Chloroform	67-66-3	0.15 U	0.15	5.1		1.1
06192	Chloromethane	74-87-3	0.42 U	0.42	5.1		1.1
06192	2-Chlorotoluene	95-49-8	0.18 U	0.18	5.1		1.1
06192	4-Chlorotoluene	106-43-4	0.18 U	0.18	5.1		1.1
06192	Chlorotrifluoroethene	79-38-9	0.63 U	0.63	6.3		1.1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.88 U	0.88	5.1		1.1
06192	Dibromochloromethane	124-48-1	0.25 U	0.25	5.1		1.1
06192	1,2-Dibromoethane	106-93-4	0.21 U	0.21	5.1		1.1
06192	Dibromomethane	74-95-3	0.30 U	0.30	5.1		1.1
06192	1,2-Dichlorobenzene	95-50-1	0.11 U	0.11	5.1		1.1
06192	1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	5.1		1.1
06192	1,4-Dichlorobenzene	106-46-7	0.20 U	0.20	5.1		1.1
06192	Dichlorodifluoromethane	75-71-8	0.15 U	0.15	5.1		1.1
06192	1,1-Dichloroethane	75-34-3	0.13 U	0.13	5.1		1.1
06192	1,2-Dichloroethane	107-06-2	0.19 U	0.19	5.1		1.1
06192	1,1-Dichloroethene	75-35-4	0.49 U	0.49	5.1		1.1
06192	cis-1,2-Dichloroethene	156-59-2	0.24 U	0.24	5.1		1.1
06192	trans-1,2-Dichloroethene	156-60-5	0.15 U	0.15	5.1		1.1
06192	1,2-Dichloropropane	78-87-5	0.21 U	0.21	5.1		1.1
06192	1,3-Dichloropropane	142-28-9	0.10 U	0.10	5.1		1.1
06192	2,2-Dichloropropane	594-20-7	0.21 U	0.21	5.1		1.1
06192	1,1-Dichloropropene	563-58-6	0.16 U	0.16	5.1		1.1
06192	cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	5.1		1.1
06192	trans-1,3-Dichloropropene	10061-02-6	0.21 U	0.21	5.1		1.1
06192	Ethylbenzene	100-41-4	0.08 U	0.08	5.1		1.1
06192	Freon 113	76-13-1	0.14 U	0.14	5.1		1.1
06192	Freon 133a	75-88-7	0.63 U	0.63	6.3		1.1
06192	Hexachlorobutadiene	87-68-3	0.18 U	0.18	5.1		1.1
06192	2-Hexanone	591-78-6	2.0 U	2.0	10		1.1
06192	Isopropylbenzene	98-82-8	0.08 U	0.08	5.1		1.1
06192	p-Isopropyltoluene	99-87-6	0.14 U	0.14	5.1		1.1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26 U	0.26	5.1		1.1
06192	4-Methyl-2-pentanone	108-10-1	0.49 U	0.49	10		1.1
06192	Methylene Chloride	75-09-2	0.97 J	0.30	5.1		1.1
06192	n-Propylbenzene	103-65-1	0.09 U	0.09	5.1		1.1

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

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

Sample Description: DUP13-SA5C-QC-121310 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B							
06192	Styrene	100-42-5	0.13 U	0.13	5.1		1.1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.14 U	0.14	5.1		1.1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.29 U	0.29	5.1		1.1
06192	Tetrachloroethene	127-18-4	0.25 U	0.25	5.1		1.1
06192	Toluene	108-88-3	0.10 U	0.10	5.1		1.1
06192	1,2,3-Trichlorobenzene	87-61-6	0.18 U	0.18	5.1		1.1
06192	1,2,4-Trichlorobenzene	120-82-1	0.23 U	0.23	5.1		1.1
06192	1,1,1-Trichloroethane	71-55-6	0.25 U	0.25	5.1		1.1
06192	1,1,2-Trichloroethane	79-00-5	0.34 U	0.34	5.1		1.1
06192	Trichloroethene	79-01-6	0.19 U	0.19	5.1		1.1
06192	Trichlorofluoromethane	75-69-4	0.37 U	0.37	5.1		1.1
06192	1,2,3-Trichloropropane	96-18-4	0.42 U	0.42	5.1		1.1
06192	1,2,4-Trimethylbenzene	95-63-6	0.51 U	0.51	5.1		1.1
06192	1,3,5-Trimethylbenzene	108-67-8	0.13 U	0.13	5.1		1.1
06192	Vinyl Chloride	75-01-4	0.25 U	0.25	5.1		1.1
06192	m+p-Xylene	179601-23-1	0.21 U	0.21	5.1		1.1
06192	o-Xylene	95-47-6	0.21 U	0.21	5.1		1.1
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16		23.28
GC/MS Semivolatiles EPA 1625C							
11622	N-Nitrosodimethylamine	62-75-9	129	19.1	38.2		1
GC/MS Semivolatiles SW-846 8270C							
04688	Aniline	62-53-3	190	U 190	570		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U 190	570		1
04688	Benzyl alcohol	100-51-6	190	U 190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	76	U 76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U 760	2,300		1

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

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

Sample Description: DUP13-SA5C-QC-121310 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1
04688	4-Nitroaniline	100-01-6	76	U 76	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U 190	570		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U 0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U 0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U 0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.76	U 0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U 0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U 0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21		1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U 0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J 6.9	21		1
10138	Fluoranthene	206-44-0	0.76	U 0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9		1

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

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

Sample Description: DUP13-SA5C-QC-121310 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.76 U	0.76	1.9	ug/kg	1
10138	2-Methylnaphthalene	91-57-6	0.76 U	0.76	1.9	ug/kg	1
10138	Naphthalene	91-20-3	0.76 U	0.76	1.9	ug/kg	1
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9	ug/kg	1
10138	Di-n-octylphthalate	117-84-0	6.9 U	6.9	21	ug/kg	1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9	ug/kg	1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9	ug/kg	1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1.0	mg/kg	22.64
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86 U	86	170	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57 U	57	170	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	340	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	340	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	57 U	57	170	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	57 U	57	170	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	57 U	57	170	1000000	1
10132	HMX	2691-41-0	140 U	140	430	1000000	1
10132	Nitrobenzene	98-95-3	57 U	57	170	1000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,400	1000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	170	1000000	1
10132	3-Nitrotoluene	99-08-1	140 U	140	170	1000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	170	1000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,400	1000000	1
10132	RDX	121-82-4	72 U	72	170	1000000	1
10132	Tetryl	479-45-8	88 U	88	170	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	57 U	57	170	1000000	1

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

Sample Description: DUP13-SA5C-QC-121310 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	2,4,6-Trinitrotoluene	118-96-7	57	U 57	170	1000000	1
						0	
HPLC Organics							
	SW-846 8315A		ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	690	U 690	1,700		1
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U 0.38	1.9		1
10225	PCB-1221	11104-28-2	0.57	U 0.57	1.9		1
10225	PCB-1232	11141-16-5	0.60	U 0.60	1.9		1
10225	PCB-1242	53469-21-9	0.57	U 0.57	1.9		1
10225	PCB-1248	12672-29-6	0.38	U 0.38	1.9		1
10225	PCB-1254	11097-69-1	0.44	J 0.38	1.9		1
10225	PCB-1260	11096-82-5	0.38	U 0.38	1.9		1
10225	PCB-1262	37324-23-5	0.38	U 0.38	1.9		1
10225	PCB-1268	11100-14-4	0.38	U 0.38	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous							
	SW-846 8015B		ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U 110	570		1
10501	Isopropanol	67-63-0	110	U 110	570		1
10501	Methanol	67-56-1	110	U 110	570		1
Terphenyls							
	SW-846 8015B		mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U 1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U 1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U 1.7	4.0		1
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,300		5.66	22.5	1
07914	Boron	7440-42-8	5.54	J	1.00	5.62	1
01650	Calcium	7440-70-2	7,160		6.89	22.5	1
01654	Iron	7439-89-6	33,600		10.6	45.0	2
01656	Lithium	7439-93-2	29.5		0.25	2.2	1
01657	Magnesium	7439-95-4	7,170		2.86	11.2	1
06958	Manganese	7439-96-5	332		0.0877	0.562	1
10145	Phosphorus	7723-14-0	397		0.630	11.2	1
01662	Potassium	7440-09-7	3,800		20.2	56.2	1
01667	Sodium	7440-23-5	189		41.9	112	1
07968	Strontium	7440-24-6	33.9		0.0697	0.562	1
06969	Tin	7440-31-5	2.94	J	1.12	11.2	1
06970	Titanium	7440-32-6	1,560		0.854	2.25	2
10146	Zirconium	7440-67-7	4.82	J	0.944	5.62	1

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

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

Sample Description: DUP13-SA5C-QC-121310 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
SW-846 6020			mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.214 J	0.0681	0.227		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.66	0.0681	0.454		2
06126	Barium	7440-39-3	123	0.123	0.454		2
06127	Beryllium	7440-41-7	0.962	0.0182	0.114		2
06128	Cadmium	7440-43-9	0.102 J	0.0409	0.114		2
06131	Chromium	7440-47-3	43.1	0.136	0.454		2
06132	Cobalt	7440-48-4	9.56	0.0227	0.114		2
06133	Copper	7440-50-8	12.3	0.0749	0.454		2
06135	Lead	7439-92-1	9.46	0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.419	0.0568	0.114		2
06139	Nickel	7440-02-0	19.0	0.114	0.454		2
06141	Selenium	7782-49-2	0.340 J	0.0454	0.454		2
06142	Silver	7440-22-4	0.0310 J	0.0136	0.114		2
06145	Thallium	7440-28-0	0.392	0.0341	0.114		2
06148	Vanadium	7440-62-2	89.1	0.0250	0.114		2
06149	Zinc	7440-66-6	91.3	0.636	3.41		2
SW-846 7471A			mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.110		1
EPA 300.0			mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	16.8	0.92	1.7		1
EPA 314.0			ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
SW-846 7199			mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.28 J	0.23	1.1		1
SW-846 9012B			mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.58		1
ASTM D1498			mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	400	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified			Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.05	0.0100	0.0100		1
Wet Chemistry			EPA 160.3 modified	%	%	%	%

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

Sample Description: DUP13-SA5C-QC-121310 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

DUP13 SDG#: DE037-02FD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 04:19	Laura M Krieger	1.1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 03:27	Sara E Johnson	23.28
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 16:40	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 16:38	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 12:48	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 02:15	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/29/2010 22:11	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 16:30	Marie D John	22.64
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:59	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 01:05	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 22:59	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 02:48	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1

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

Sample Description: DUP13-SA5C-QC-121310 Soil
 SSFL Area IV Collocated Soil Sampling
 DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

DUP13 SDG#: DE037-02FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103500005A	12/17/2010 18:34	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 11:47	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103500005A	12/16/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/22/2010 02:56	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 02:56	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:26	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:45	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:34	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 14:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 14:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 02:44	Venia B McFadden	1

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



Analysis Report

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

Sample Description: DUP13-SA5C-QC-121310 Soil
SSFL Area IV Collocated Soil Sampling
DUP13-SA5C-QC-121310

LLI Sample # SW 6163870
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

DUP13 SDG#: DE037-02FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/03/2011	22:19	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010	20:14	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011	13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011	10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010	17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010	12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010	12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010	20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010	05:26	William C Schwebel	1

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

Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1 U	7.1	8.5		0.95
06192	Benzene	71-43-2	0.11 U	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	0.35 U	0.35	4.3		0.95
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.3		0.95
06192	Bromoform	75-25-2	0.43 U	0.43	4.3		0.95
06192	Bromomethane	74-83-9	0.27 U	0.27	4.3		0.95
06192	2-Butanone	78-93-3	1.3 U	1.3	8.5		0.95
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.3		0.95
06192	Chloroethane	75-00-3	0.14 U	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.3		0.95
06192	Chloroform	67-66-3	0.13 U	0.13	4.3		0.95
06192	Chloromethane	74-87-3	0.35 U	0.35	4.3		0.95
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	0.53 U	0.53	5.3		0.95
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75 U	0.75	4.3		0.95
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.3		0.95
06192	Freon 113	76-13-1	0.12 U	0.12	4.3		0.95
06192	Freon 133a	75-88-7	0.53 U	0.53	5.3		0.95
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.5		0.95
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.5		0.95
06192	Methylene Chloride	75-09-2	0.63 J	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.3		0.95

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

Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B							
06192	Styrene	100-42-5	0.11 U	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.3		0.95
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.3		0.95
06192	Toluene	108-88-3	0.09 U	0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	0.35 U	0.35	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.3		0.95
06192	o-Xylene	95-47-6	0.18 U	0.18	4.3		0.95
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	4.4 U	4.4	13		19.56
GC/MS Semivolatiles EPA 1625C							
11622	N-Nitrosodimethylamine	62-75-9	18.8 U	18.8	37.6		1
GC/MS Semivolatiles SW-846 8270C							
04688	Aniline	62-53-3	190	U 190	560		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U 190	560		1
04688	Benzyl alcohol	100-51-6	190	U 190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	75	U 75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U 750	2,300		1

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Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U 75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1
04688	4-Nitroaniline	100-01-6	75	U 75	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U 190	560		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1

The following compounds were detected in the method blank at the respective concentrations of:
 diethylphthalate 28 ug/kg
 bis(2-ethylhexyl)phthalate 18 ug/kg
 These blank values were not subtracted from the analytical results.

GC/MS	Semivolatiles	SW-846 8270C	SIM	ug/kg	ug/kg	ug/kg	ug/kg
10138	Acenaphthene	83-32-9		0.75	U 0.75	1.9	1
10138	Acenaphthylene	208-96-8		0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7		0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3		0.75	U 0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8		0.75	U 0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2		0.75	U 0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2		0.75	U 0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9		0.75	U 0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7		6.8	U 6.8	20	1
10138	Di-n-butylphthalate	84-74-2		6.8	U 6.8	20	1
10138	Chrysene	218-01-9		0.46	J 0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3		0.75	U 0.75	1.9	1
10138	Diethylphthalate	84-66-2		6.8	U 6.8	20	1
10138	Dimethylphthalate	131-11-3		6.8	U 6.8	20	1

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Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0 J	6.8	20		1
10138	Fluoranthene	206-44-0	0.75 U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75 U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75 U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75 U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75 U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75 U	0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75 U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20		1
10138	Phenanthrene	85-01-8	0.75 U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75 U	0.75	1.9		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

GC Volatiles		TPH GRO SW-846 8015B mod	mg/kg	mg/kg	mg/kg	mg/kg
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1.0	22.73

Explosives		SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	85 U	85	170	1000000 1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56 U	56	170	1000000 1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	340	1000000 1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	340	1000000 1
10132	1,3-Dinitrobenzene	99-65-0	56 U	56	170	1000000 1
10132	2,4-Dinitrotoluene	121-14-2	56 U	56	170	1000000 1
10132	2,6-Dinitrotoluene	606-20-2	56 U	56	170	1000000 1
10132	HMX	2691-41-0	140 U	140	420	1000000 1
10132	Nitrobenzene	98-95-3	56 U	56	170	1000000 1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,400	1000000 1
10132	2-Nitrotoluene	88-72-2	110 U	110	170	1000000 1
10132	3-Nitrotoluene	99-08-1	140 U	140	170	1000000 1
10132	4-Nitrotoluene	99-99-0	110 U	110	170	1000000 1
10132	PETN	78-11-5	1,100 U	1,100	3,400	1000000 1
10132	RDX	121-82-4	71 U	71	170	1000000 1

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Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
		SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg	
10132	Tetryl	479-45-8	86	U 86	170	1000000	1
						0	
10132	1,3,5-Trinitrobenzene	99-35-4	56	U 56	170	1000000	1
						0	
10132	2,4,6-Trinitrotoluene	118-96-7	56	U 56	170	1000000	1
						0	
HPLC Organics							
		SW-846 8315A	ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	680	U 680	1,700		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U 0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56	U 0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59	U 0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56	U 0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37	U 0.37	1.9		1
10225	PCB-1254	11097-69-1	0.97	J 0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37	U 0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U 0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U 0.37	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U 110	560		1
10501	Isopropanol	67-63-0	110	U 110	560		1
10501	Methanol	67-56-1	110	U 110	560		1
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U 1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U 1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U 1.7	4.0		1
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,700	5.46	21.7		1
07914	Boron	7440-42-8	7.11	0.966	5.43		1
01650	Calcium	7440-70-2	7,330	6.65	21.7		1
01654	Iron	7439-89-6	29,600	10.2	43.4		2
01656	Lithium	7439-93-2	29.0	0.24	2.2		1
01657	Magnesium	7439-95-4	7,030	2.76	10.9		1
06958	Manganese	7439-96-5	387	0.0847	0.543		1
10145	Phosphorus	7723-14-0	419	0.608	10.9		1
01662	Potassium	7440-09-7	3,630	19.5	54.3		1
01667	Sodium	7440-23-5	198	40.5	109		1
07968	Strontium	7440-24-6	32.2	0.0673	0.543		1

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Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
06969	Tin	7440-31-5	2.29 J	1.09	10.9		1
06970	Titanium	7440-32-6	1,230	0.825	2.17		2
10146	Zirconium	7440-67-7	3.82 J	0.912	5.43		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.272	0.0670	0.223		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.87	0.0670	0.447		2
06126	Barium	7440-39-3	128	0.121	0.447		2
06127	Beryllium	7440-41-7	0.957	0.0179	0.112		2
06128	Cadmium	7440-43-9	0.108 J	0.0402	0.112		2
06131	Chromium	7440-47-3	38.2	0.134	0.447		2
06132	Cobalt	7440-48-4	9.01	0.0223	0.112		2
06133	Copper	7440-50-8	12.0	0.0738	0.447		2
06135	Lead	7439-92-1	9.45	0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.517	0.0559	0.112		2
06139	Nickel	7440-02-0	17.0	0.112	0.447		2
06141	Selenium	7782-49-2	0.299 J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0341 J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.361	0.0335	0.112		2
06148	Vanadium	7440-62-2	76.5	0.0246	0.112		2
06149	Zinc	7440-66-6	81.2	0.626	3.35		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.112		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	13.0	0.90	1.7		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	33.9		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.26 J	0.23	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	399	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

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

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

Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.16	0.0100	0.0100		1
Wet Chemistry							
		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-006-SA5C-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 04:41	Laura M Krieger	0.95
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 03:46	Sara E Johnson	19.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 16:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:42	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 16:49	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	12/30/2010 21:03	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 00:33	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/29/2010 19:56	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 17:07	Marie D John	22.73
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:58	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 01:47	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 23:08	James H Place	1

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

Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 03:06	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 21:53	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 06:33	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/22/2010 02:31	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 02:31	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 19:52	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:25	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:46	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1

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Sample Description: SL-006-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163871
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 14:02	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 14:02	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 01:07	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/03/2011 22:35	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010 18:47	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010 08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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



Analysis Report

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

Sample Description: SL-006-SA5C-SB-4.0-5.0MS Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	270	7.1	8.5		0.95
06192	Benzene	71-43-2	21	0.11	4.3		0.95
06192	Bromobenzene	108-86-1	19	0.14	4.3		0.95
06192	Bromochloromethane	74-97-5	21	0.35	4.3		0.95
06192	Bromodichloromethane	75-27-4	21	0.09	4.3		0.95
06192	Bromoform	75-25-2	18	0.43	4.3		0.95
06192	Bromomethane	74-83-9	15	0.27	4.3		0.95
06192	2-Butanone	78-93-3	180	1.3	8.5		0.95
06192	n-Butylbenzene	104-51-8	17	0.13	4.3		0.95
06192	sec-Butylbenzene	135-98-8	18	0.06	4.3		0.95
06192	tert-Butylbenzene	98-06-6	19	0.17	4.3		0.95
06192	Carbon Tetrachloride	56-23-5	22	0.15	4.3		0.95
06192	Chlorobenzene	108-90-7	20	0.12	4.3		0.95
06192	Chloroethane	75-00-3	17	0.14	4.3		0.95
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.32	4.3		0.95
06192	Chloroform	67-66-3	22	0.13	4.3		0.95
06192	Chloromethane	74-87-3	16	0.35	4.3		0.95
06192	2-Chlorotoluene	95-49-8	19	0.15	4.3		0.95
06192	4-Chlorotoluene	106-43-4	19	0.15	4.3		0.95
06192	Chlorotrifluoroethene	79-38-9	21	0.51	5.1		0.91
06192	1,2-Dibromo-3-chloropropane	96-12-8	17	0.75	4.3		0.95
06192	Dibromochloromethane	124-48-1	20	0.21	4.3		0.95
06192	1,2-Dibromoethane	106-93-4	19	0.18	4.3		0.95
06192	Dibromomethane	74-95-3	20	0.26	4.3		0.95
06192	1,2-Dichlorobenzene	95-50-1	18	0.1	4.3		0.95
06192	1,3-Dichlorobenzene	541-73-1	17	0.13	4.3		0.95
06192	1,4-Dichlorobenzene	106-46-7	17	0.17	4.3		0.95
06192	Dichlorodifluoromethane	75-71-8	11	0.13	4.3		0.95
06192	1,1-Dichloroethane	75-34-3	22	0.11	4.3		0.95
06192	1,2-Dichloroethane	107-06-2	21	0.16	4.3		0.95
06192	1,1-Dichloroethene	75-35-4	22	0.42	4.3		0.95
06192	cis-1,2-Dichloroethene	156-59-2	21	0.20	4.3		0.95
06192	trans-1,2-Dichloroethene	156-60-5	21	0.13	4.3		0.95
06192	1,2-Dichloropropane	78-87-5	21	0.18	4.3		0.95
06192	1,3-Dichloropropane	142-28-9	20	0.09	4.3		0.95
06192	2,2-Dichloropropane	594-20-7	21	0.18	4.3		0.95
06192	1,1-Dichloropropene	563-58-6	21	0.14	4.3		0.95
06192	cis-1,3-Dichloropropene	10061-01-5	18	0.17	4.3		0.95
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.18	4.3		0.95
06192	Ethylbenzene	100-41-4	20	0.06	4.3		0.95
06192	Freon 113	76-13-1	22	0.12	4.3		0.95
06192	Freon 133a	75-88-7	19	0.51	5.1		0.91
06192	Hexachlorobutadiene	87-68-3	14	0.15	4.3		0.95
06192	2-Hexanone	591-78-6	81	1.7	8.5		0.95
06192	Isopropylbenzene	98-82-8	19	0.06	4.3		0.95
06192	p-Isopropyltoluene	99-87-6	18	0.12	4.3		0.95
06192	Methyl Tertiary Butyl Ether	1634-04-4	19	0.22	4.3		0.95
06192	4-Methyl-2-pentanone	108-10-1	70	0.42	8.5		0.95
06192	Methylene Chloride	75-09-2	22	0.26	4.3		0.95
06192	n-Propylbenzene	103-65-1	20	0.07	4.3		0.95

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Sample Description: SL-006-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	19	0.11	4.3		0.95
06192	1,1,1,2-Tetrachloroethane	630-20-6	21	0.12	4.3		0.95
06192	1,1,2,2-Tetrachloroethane	79-34-5	19	0.24	4.3		0.95
06192	Tetrachloroethene	127-18-4	20	0.21	4.3		0.95
06192	Toluene	108-88-3	21	0.09	4.3		0.95
06192	1,2,3-Trichlorobenzene	87-61-6	13	0.15	4.3		0.95
06192	1,2,4-Trichlorobenzene	120-82-1	13	0.19	4.3		0.95
06192	1,1,1-Trichloroethane	71-55-6	22	0.21	4.3		0.95
06192	1,1,2-Trichloroethane	79-00-5	20	0.29	4.3		0.95
06192	Trichloroethene	79-01-6	20	0.16	4.3		0.95
06192	Trichlorofluoromethane	75-69-4	19	0.31	4.3		0.95
06192	1,2,3-Trichloropropane	96-18-4	19	0.35	4.3		0.95
06192	1,2,4-Trimethylbenzene	95-63-6	19	0.43	4.3		0.95
06192	1,3,5-Trimethylbenzene	108-67-8	19	0.11	4.3		0.95
06192	Vinyl Chloride	75-01-4	17	0.21	4.3		0.95
06192	m+p-Xylene	179601-23-1	40	0.18	4.3		0.95
06192	o-Xylene	95-47-6	19	0.18	4.3		0.95
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	130	5.0	15		22.32
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	711	18.8	37.6		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,800	19	190		1
04688	Acenaphthylene	208-96-8	1,800	19	190		1
04688	Aniline	62-53-3	1,100	190	560		1
04688	Anthracene	120-12-7	1,800	19	190		1
04688	Benzidine	92-87-5	3,500	J 1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,800	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,600	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,700	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,500	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,700	19	190		1
04688	Benzoic acid	65-85-0	1,200	190	560		1
04688	Benzyl alcohol	100-51-6	1,800	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,700	19	190		1
04688	Butylbenzylphthalate	85-68-7	2,000	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,900	19	190		1
04688	Carbazole	86-74-8	1,800	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,800	38	190		1
04688	4-Chloroaniline	106-47-8	810	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,800	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,800	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,800	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,800	19	190		1
04688	2-Chlorophenol	95-57-8	1,800	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,800	38	190		1

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

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

Sample Description: SL-006-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,800	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,600	19	190		1
04688	Dibenzofuran	132-64-9	1,800	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,700	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,600	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,600	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	690	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,900	19	190		1
04688	Diethylphthalate	84-66-2	1,900	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,900	38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,900	38	190		1
04688	Dimethylphthalate	131-11-3	1,800	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,500	190	560		1
04688	2,4-Dinitrophenol	51-28-5	2,000	J 750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	1,800	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,800	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,900	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	2,000	19	380		1
04688	Fluoranthene	206-44-0	1,800	19	190		1
04688	Fluorene	86-73-7	1,800	19	190		1
04688	Hexachlorobenzene	118-74-1	1,700	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,500	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,700	190	560		1
04688	Hexachloroethane	67-72-1	1,600	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,600	19	190		1
04688	Isophorone	78-59-1	1,800	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,800	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,600	19	190		1
04688	2-Methylphenol	95-48-7	1,900	38	190		1
04688	4-Methylphenol	106-44-5	1,800	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,700	19	190		1
04688	2-Nitroaniline	88-74-4	1,800	19	190		1
04688	3-Nitroaniline	99-09-2	1,700	38	190		1
04688	4-Nitroaniline	100-01-6	1,400	75	190		1
04688	Nitrobenzene	98-95-3	1,700	19	190		1
04688	2-Nitrophenol	88-75-5	1,700	19	190		1
04688	4-Nitrophenol	100-02-7	1,700	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,800	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,800	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,800	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	2,000	19	190		1
04688	Pentachlorophenol	87-86-5	1,300	190	560		1
04688	Phenanthrene	85-01-8	1,800	19	190		1
04688	Phenol	108-95-2	1,800	19	190		1

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Sample Description: SL-006-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles	SW-846 8270C		ug/kg	ug/kg	ug/kg	ug/kg	
04688	Pyrene	129-00-0	1,900	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,700	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,800	38	190		1

The following compounds were detected in the method blank at the respective concentrations of:

diethylphthalate 28 ug/kg
 bis(2-ethylhexyl)phthalate 18 ug/kg

These blank values were not subtracted from the analytical results.

GC/MS Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg
10138	Acenaphthene	83-32-9	32	0.75	1.9
10138	Acenaphthylene	208-96-8	34	0.38	1.9
10138	Anthracene	120-12-7	35	0.38	1.9
10138	Benzo(a)anthracene	56-55-3	34	0.75	1.9
10138	Benzo(a)pyrene	50-32-8	33	0.75	1.9
10138	Benzo(b)fluoranthene	205-99-2	38	0.75	1.9
10138	Benzo(g,h,i)perylene	191-24-2	18	0.75	1.9
10138	Benzo(k)fluoranthene	207-08-9	35	0.75	1.9
10138	Butylbenzylphthalate	85-68-7	39	6.8	20
10138	Di-n-butylphthalate	84-74-2	39	6.8	20
10138	Chrysene	218-01-9	34	0.38	1.9
10138	Dibenz(a,h)anthracene	53-70-3	21	0.75	1.9
10138	Diethylphthalate	84-66-2	40	6.8	20
10138	Dimethylphthalate	131-11-3	36	6.8	20
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43	6.8	20
10138	Fluoranthene	206-44-0	38	0.75	1.9
10138	Fluorene	86-73-7	34	0.75	1.9
10138	Indeno(1,2,3-cd)pyrene	193-39-5	20	0.75	1.9
10138	1-Methylnaphthalene	90-12-0	32	0.75	1.9
10138	2-Methylnaphthalene	91-57-6	30	0.75	1.9
10138	Naphthalene	91-20-3	31	0.75	1.9
10138	N-Nitrosodimethylamine	62-75-9	30	0.75	1.9
10138	Di-n-octylphthalate	117-84-0	43	6.8	20
10138	Phenanthrene	85-01-8	32	0.75	1.9
10138	Pyrene	129-00-0	32	0.75	1.9

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

GC Volatiles	TPH GRO SW-846 8015B mod	mg/kg	mg/kg	mg/kg	mg/kg
05551	9a TPH by EPA 8015B Gas C5-C12 n.a.	7.9	0.2	1.1	24.65

Explosives	SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	3,000	85	170
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	3,000	56	170

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Sample Description: SL-006-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	340	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	340	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	2,900	56	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	2,800	56	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	3,000	56	170	1000000 0	1
10132	HMX	2691-41-0	2,300	140	420	1000000 0	1
10132	Nitrobenzene	98-95-3	2,800	56	170	1000000 0	1
10132	Nitroglycerin	55-63-0	63,000	1,100	3,400	1000000 0	1
10132	2-Nitrotoluene	88-72-2	3,000	110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	3,000	140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	3,000	110	170	1000000 0	1
10132	PETN	78-11-5	73,000	1,100	3,400	1000000 0	1
10132	RDX	121-82-4	2,700	71	170	1000000 0	1
10132	Tetryl	479-45-8	3,700	86	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,300	56	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	3,000	56	170	1000000 0	1
HPLC Organics							
	SW-846 8315A		ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	5,500	680	1,700		1
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7		1
10225	PCB-1016	12674-11-2	19	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9		1
10225	PCB-1254	11097-69-1	6.6	0.37	1.9		1
10225	PCB-1260	11096-82-5	21	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9		1

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Sample Description: SL-006-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	SW-846 8015B		ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,300	110	560		1
10501	Isopropanol	67-63-0	2,400	110	560		1
10501	Methanol	67-56-1	2,100	110	560		1
Terphenyls	SW-846 8015B		mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 J	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7 J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.8 J	1.7	4.0		1
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,900	5.62	22.3		1
07914	Boron	7440-42-8	217	0.995	5.59		1
01650	Calcium	7440-70-2	6,690	6.85	22.3		1
01654	Iron	7439-89-6	30,100	5.26	22.3		1
01656	Lithium	7439-93-2	136	0.25	2.2		1
01657	Magnesium	7439-95-4	6,490	2.84	11.2		1
06958	Manganese	7439-96-5	480	0.0872	0.559		1
10145	Phosphorus	7723-14-0	479	0.626	11.2		1
01662	Potassium	7440-09-7	5,130	20.1	55.9		1
01667	Sodium	7440-23-5	1,230	41.7	112		1
07968	Strontium	7440-24-6	139	0.0693	0.559		1
06969	Tin	7440-31-5	424	1.12	11.2		1
06970	Titanium	7440-32-6	1,820	0.849	2.23		2
10146	Zirconium	7440-67-7	109	0.939	5.59		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.943	0.0657	0.219		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.93	0.0657	0.438		2
06126	Barium	7440-39-3	135	0.118	0.438		2
06127	Beryllium	7440-41-7	1.95	0.0175	0.110		2
06128	Cadmium	7440-43-9	1.52	0.0394	0.110		2
06131	Chromium	7440-47-3	49.1	0.131	0.438		2
06132	Cobalt	7440-48-4	63.4	0.0219	0.110		2
06133	Copper	7440-50-8	22.5	0.0723	0.438		2
06135	Lead	7439-92-1	12.5	0.0114	0.219		2
06138	Molybdenum	7439-98-7	13.4	0.0548	0.110		2
06139	Nickel	7440-02-0	28.1	0.110	0.438		2
06141	Selenium	7782-49-2	2.64	0.0438	0.438		2
06142	Silver	7440-22-4	13.4	0.0131	0.110		2
06145	Thallium	7440-28-0	0.853	0.0329	0.110		2
06148	Vanadium	7440-62-2	89.7	0.0241	0.110		2
06149	Zinc	7440-66-6	91.9	0.614	3.29		2

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Sample Description: SL-006-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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Submitted: 12/14/2010 10:05

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S0645 SDG#: DE037-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
00159	Mercury	SW-846 7471A 7439-97-6	mg/kg 0.171	mg/kg 0.0031	mg/kg 0.108	mg/kg	1
Wet Chemistry							
EPA 300.0							
07332	11a Anions by 300.0 - Fluoride	16984-48-8	12.6	0.90	1.1	mg/kg	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	30.0	0.90	1.7	mg/kg	1
EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	ug/kg 525	ug/kg 10.2	ug/kg 33.9	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	mg/kg 44.8	mg/kg 1.1	mg/kg 5.6	mg/kg	5
SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	mg/kg 6.0	mg/kg 0.20	mg/kg 0.55	mg/kg	1
Wet Chemistry							
EPA 160.3 modified							
11625	28a Moisture Content by 160.3	n.a.	% 11.4	% 0.50	% 0.50	%	1

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-006-SA5C-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 05:04	Laura M Krieger	0.95
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 05:48	Laura M Krieger	0.91
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 04:05	Sara E Johnson	22.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:00	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 16:57	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	12/30/2010 21:21	Timothy J Trees	1

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Sample Description: SL-006-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
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S0645 SDG#: DE037-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 00:58	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/29/2010 20:30	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 17:44	Marie D John	24.65
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:55	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 02:29	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 23:18	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 03:25	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 22:08	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 07:18	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 02:42	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:03	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:33	Choon Y Tian	2

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Sample Description: SL-006-SA5C-SB-4.0-5.0MS Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163872
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010	17:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010	17:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010	17:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010	17:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010	17:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010	17:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010	17:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010	05:50	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010	20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010	20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010	23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011	14:31	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011	14:31	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011	01:55	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10364243201A	01/03/2011	22:59	Venia B McFadden	5
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010	18:48	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011	13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011	10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010	08:55	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010	20:00	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010	05:26	William C Schwebel	1

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Sample Description: SL-006-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	280	6.9	8.2		0.91
06192	Benzene	71-43-2	20	0.10	4.1		0.91
06192	Bromobenzene	108-86-1	16	0.13	4.1		0.91
06192	Bromochloromethane	74-97-5	19	0.34	4.1		0.91
06192	Bromodichloromethane	75-27-4	19	0.08	4.1		0.91
06192	Bromoform	75-25-2	17	0.41	4.1		0.91
06192	Bromomethane	74-83-9	13	0.26	4.1		0.91
06192	2-Butanone	78-93-3	180	1.3	8.2		0.91
06192	n-Butylbenzene	104-51-8	14	0.12	4.1		0.91
06192	sec-Butylbenzene	135-98-8	15	0.06	4.1		0.91
06192	tert-Butylbenzene	98-06-6	15	0.16	4.1		0.91
06192	Carbon Tetrachloride	56-23-5	20	0.14	4.1		0.91
06192	Chlorobenzene	108-90-7	17	0.11	4.1		0.91
06192	Chloroethane	75-00-3	14	0.13	4.1		0.91
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.31	4.1		0.91
06192	Chloroform	67-66-3	20	0.12	4.1		0.91
06192	Chloromethane	74-87-3	15	0.34	4.1		0.91
06192	2-Chlorotoluene	95-49-8	16	0.14	4.1		0.91
06192	4-Chlorotoluene	106-43-4	15	0.14	4.1		0.91
06192	Chlorotrifluoroethene	79-38-9	22	0.53	5.3		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	16	0.72	4.1		0.91
06192	Dibromochloromethane	124-48-1	18	0.21	4.1		0.91
06192	1,2-Dibromoethane	106-93-4	18	0.17	4.1		0.91
06192	Dibromomethane	74-95-3	19	0.25	4.1		0.91
06192	1,2-Dichlorobenzene	95-50-1	15	0.09	4.1		0.91
06192	1,3-Dichlorobenzene	541-73-1	14	0.12	4.1		0.91
06192	1,4-Dichlorobenzene	106-46-7	14	0.16	4.1		0.91
06192	Dichlorodifluoromethane	75-71-8	10	0.12	4.1		0.91
06192	1,1-Dichloroethane	75-34-3	20	0.10	4.1		0.91
06192	1,2-Dichloroethane	107-06-2	19	0.15	4.1		0.91
06192	1,1-Dichloroethene	75-35-4	20	0.40	4.1		0.91
06192	cis-1,2-Dichloroethene	156-59-2	19	0.20	4.1		0.91
06192	trans-1,2-Dichloroethene	156-60-5	19	0.12	4.1		0.91
06192	1,2-Dichloropropane	78-87-5	19	0.17	4.1		0.91
06192	1,3-Dichloropropane	142-28-9	19	0.08	4.1		0.91
06192	2,2-Dichloropropane	594-20-7	19	0.17	4.1		0.91
06192	1,1-Dichloropropene	563-58-6	19	0.13	4.1		0.91
06192	cis-1,3-Dichloropropene	10061-01-5	17	0.16	4.1		0.91
06192	trans-1,3-Dichloropropene	10061-02-6	17	0.17	4.1		0.91
06192	Ethylbenzene	100-41-4	17	0.06	4.1		0.91
06192	Freon 113	76-13-1	20	0.11	4.1		0.91
06192	Freon 133a	75-88-7	20	0.53	5.3		0.93
06192	Hexachlorobutadiene	87-68-3	10	0.14	4.1		0.91
06192	2-Hexanone	591-78-6	82	1.6	8.2		0.91
06192	Isopropylbenzene	98-82-8	16	0.06	4.1		0.91
06192	p-Isopropyltoluene	99-87-6	15	0.11	4.1		0.91
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.22	4.1		0.91
06192	4-Methyl-2-pentanone	108-10-1	72	0.40	8.2		0.91
06192	Methylene Chloride	75-09-2	19	0.25	4.1		0.91
06192	n-Propylbenzene	103-65-1	17	0.07	4.1		0.91

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Sample Description: SL-006-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	16	0.10	4.1		0.91
06192	1,1,1,2-Tetrachloroethane	630-20-6	18	0.11	4.1		0.91
06192	1,1,2,2-Tetrachloroethane	79-34-5	18	0.24	4.1		0.91
06192	Tetrachloroethene	127-18-4	17	0.21	4.1		0.91
06192	Toluene	108-88-3	18	0.08	4.1		0.91
06192	1,2,3-Trichlorobenzene	87-61-6	10	0.14	4.1		0.91
06192	1,2,4-Trichlorobenzene	120-82-1	10	0.19	4.1		0.91
06192	1,1,1-Trichloroethane	71-55-6	20	0.21	4.1		0.91
06192	1,1,2-Trichloroethane	79-00-5	18	0.28	4.1		0.91
06192	Trichloroethene	79-01-6	18	0.15	4.1		0.91
06192	Trichlorofluoromethane	75-69-4	17	0.30	4.1		0.91
06192	1,2,3-Trichloropropane	96-18-4	18	0.34	4.1		0.91
06192	1,2,4-Trimethylbenzene	95-63-6	16	0.41	4.1		0.91
06192	1,3,5-Trimethylbenzene	108-67-8	16	0.10	4.1		0.91
06192	Vinyl Chloride	75-01-4	15	0.21	4.1		0.91
06192	m+p-Xylene	179601-23-1	34	0.17	4.1		0.91
06192	o-Xylene	95-47-6	16	0.17	4.1		0.91
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	120	5.1	15		22.56
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	624	18.8	37.6		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,600	19	190		1
04688	Acenaphthylene	208-96-8	1,600	19	190		1
04688	Aniline	62-53-3	840	190	560		1
04688	Anthracene	120-12-7	1,600	19	190		1
04688	Benzidine	92-87-5	2,200	J 1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	1,600	19	190		1
04688	Benzo(a)pyrene	50-32-8	1,400	19	190		1
04688	Benzo(b)fluoranthene	205-99-2	1,300	19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	1,300	19	190		1
04688	Benzo(k)fluoranthene	207-08-9	1,600	19	190		1
04688	Benzoic acid	65-85-0	880	190	560		1
04688	Benzyl alcohol	100-51-6	1,700	190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	1,500	19	190		1
04688	Butylbenzylphthalate	85-68-7	1,700	19	190		1
04688	Di-n-butylphthalate	84-74-2	1,600	19	190		1
04688	Carbazole	86-74-8	1,600	19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	38	190		1
04688	4-Chloroaniline	106-47-8	710	75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,600	19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,600	19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,700	19	190		1
04688	2-Chloronaphthalene	91-58-7	1,600	19	190		1
04688	2-Chlorophenol	95-57-8	1,600	19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,500	38	190		1

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Sample Description: SL-006-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Chrysene	218-01-9	1,600	19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	1,400	19	190		1
04688	Dibenzofuran	132-64-9	1,600	19	190		1
04688	1,2-Dichlorobenzene	95-50-1	1,500	19	190		1
04688	1,3-Dichlorobenzene	541-73-1	1,500	19	190		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	610	110	380		1
04688	2,4-Dichlorophenol	120-83-2	1,700	19	190		1
04688	Diethylphthalate	84-66-2	1,600	19	190		1
04688	2,4-Dimethylphenol	105-67-9	1,600	38	190		1
04688	3,5-Dimethylphenol	108-68-9	1,700	38	190		1
04688	Dimethylphthalate	131-11-3	1,600	19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,200	190	560		1
04688	2,4-Dinitrophenol	51-28-5	1,400	J 750	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	1,600	38	190		1
04688	2,6-Dinitrotoluene	606-20-2	1,500	19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	1,700	19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	19	380		1
04688	Fluoranthene	206-44-0	1,600	19	190		1
04688	Fluorene	86-73-7	1,600	19	190		1
04688	Hexachlorobenzene	118-74-1	1,500	19	190		1
04688	Hexachlorobutadiene	87-68-3	1,400	75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	2,300	190	560		1
04688	Hexachloroethane	67-72-1	1,400	19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,400	19	190		1
04688	Isophorone	78-59-1	1,600	19	190		1
04688	1-Methylnaphthalene	90-12-0	1,600	19	190		1
04688	2-Methylnaphthalene	91-57-6	1,500	19	190		1
04688	2-Methylphenol	95-48-7	1,700	38	190		1
04688	4-Methylphenol	106-44-5	1,600	38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	Naphthalene	91-20-3	1,500	19	190		1
04688	2-Nitroaniline	88-74-4	1,600	19	190		1
04688	3-Nitroaniline	99-09-2	1,500	38	190		1
04688	4-Nitroaniline	100-01-6	1,200	75	190		1
04688	Nitrobenzene	98-95-3	1,600	19	190		1
04688	2-Nitrophenol	88-75-5	1,500	19	190		1
04688	4-Nitrophenol	100-02-7	1,500	190	560		1
04688	N-Nitrosodimethylamine	62-75-9	1,600	38	190		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,600	19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	1,600	19	190		1
04688	Pentachlorophenol	87-86-5	1,100	190	560		1
04688	Phenanthrene	85-01-8	1,600	19	190		1
04688	Phenol	108-95-2	1,600	19	190		1

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Sample Description: SL-006-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
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Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Pyrene	129-00-0	1,600	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	1,500	38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	1,500	38	190		1

The following compounds were detected in the method blank at the respective concentrations of:

diethylphthalate 28 ug/kg
 bis(2-ethylhexyl)phthalate 18 ug/kg

These blank values were not subtracted from the analytical results.

GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg
10138	Acenaphthene	83-32-9	33	0.75	1.9	1
10138	Acenaphthylene	208-96-8	36	0.38	1.9	1
10138	Anthracene	120-12-7	36	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	35	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	34	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	39	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	19	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	36	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	39	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	39	6.8	20	1
10138	Chrysene	218-01-9	36	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	22	0.75	1.9	1
10138	Diethylphthalate	84-66-2	42	6.8	20	1
10138	Dimethylphthalate	131-11-3	38	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	43	6.8	20	1
10138	Fluoranthene	206-44-0	39	0.75	1.9	1
10138	Fluorene	86-73-7	36	0.75	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	21	0.75	1.9	1
10138	1-Methylnaphthalene	90-12-0	33	0.75	1.9	1
10138	2-Methylnaphthalene	91-57-6	31	0.75	1.9	1
10138	Naphthalene	91-20-3	31	0.75	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	30	0.75	1.9	1
10138	Di-n-octylphthalate	117-84-0	43	6.8	20	1
10138	Phenanthrene	85-01-8	33	0.75	1.9	1
10138	Pyrene	129-00-0	33	0.75	1.9	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

GC Volatiles	TPH GRO	SW-846 8015B mod	mg/kg	mg/kg	mg/kg	mg/kg
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	7.9	0.2	1.1	24.13

Explosives	SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	3,000	85	170 1000000 0
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	3,000	56	170 1000000 0

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

Sample Description: SL-006-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	340	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	340	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	2,900	56	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	2,800	56	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	3,000	56	170	1000000 0	1
10132	HMX	2691-41-0	2,400	140	420	1000000 0	1
10132	Nitrobenzene	98-95-3	2,800	56	170	1000000 0	1
10132	Nitroglycerin	55-63-0	63,000	1,100	3,400	1000000 0	1
10132	2-Nitrotoluene	88-72-2	3,000	110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	3,000	140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	3,000	110	170	1000000 0	1
10132	PETN	78-11-5	73,000	1,100	3,400	1000000 0	1
10132	RDX	121-82-4	2,800	71	170	1000000 0	1
10132	Tetryl	479-45-8	3,800	86	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	3,300	56	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	3,000	56	170	1000000 0	1
HPLC Organics							
	SW-846 8315A		ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	5,600	680	1,700		1
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	2.0 J	1.1	3.7		1
10225	PCB-1016	12674-11-2	21	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9		1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9		1
10225	PCB-1254	11097-69-1	6.8	0.37	1.9		1
10225	PCB-1260	11096-82-5	22	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9		1

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Sample Description: SL-006-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Miscellaneous	SW-846 8015B		ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	2,400	110	560		1
10501	Isopropanol	67-63-0	2,400	110	560		1
10501	Methanol	67-56-1	2,400	110	560		1
Terphenyls	SW-846 8015B		mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7 J	1.6	4.0		1
10318	o-Terphenyl	84-15-1	1.7 J	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7 J	1.7	4.0		1
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,200	5.57	22.1		1
07914	Boron	7440-42-8	212	0.985	5.53		1
01650	Calcium	7440-70-2	6,360	6.78	22.1		1
01654	Iron	7439-89-6	30,500	10.4	44.3		2
01656	Lithium	7439-93-2	134	0.24	2.2		1
01657	Magnesium	7439-95-4	6,550	2.81	11.1		1
06958	Manganese	7439-96-5	487	0.0863	0.553		1
10145	Phosphorus	7723-14-0	539	0.620	11.1		1
01662	Potassium	7440-09-7	4,740	19.9	55.3		1
01667	Sodium	7440-23-5	1,220	41.3	111		1
07968	Strontium	7440-24-6	138	0.0686	0.553		1
06969	Tin	7440-31-5	416	1.11	11.1		1
06970	Titanium	7440-32-6	1,750	0.841	2.21		2
10146	Zirconium	7440-67-7	108	0.929	5.53		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	1.05	0.0670	0.223		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.3	0.0670	0.447		2
06126	Barium	7440-39-3	140	0.121	0.447		2
06127	Beryllium	7440-41-7	1.92	0.0179	0.112		2
06128	Cadmium	7440-43-9	1.64	0.0402	0.112		2
06131	Chromium	7440-47-3	49.0	0.134	0.447		2
06132	Cobalt	7440-48-4	69.6	0.0223	0.112		2
06133	Copper	7440-50-8	23.1	0.0738	0.447		2
06135	Lead	7439-92-1	11.7	0.0116	0.223		2
06138	Molybdenum	7439-98-7	15.4	0.0559	0.112		2
06139	Nickel	7440-02-0	28.4	0.112	0.447		2
06141	Selenium	7782-49-2	2.84	0.0447	0.447		2
06142	Silver	7440-22-4	14.6	0.0134	0.112		2
06145	Thallium	7440-28-0	0.887	0.0335	0.112		2
06148	Vanadium	7440-62-2	85.5	0.0246	0.112		2
06149	Zinc	7440-66-6	98.2	0.626	3.35		2

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

Sample Description: SL-006-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
00159	Mercury	7439-97-6	0.177	0.0032	0.111	mg/kg	1
Wet Chemistry							
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50	%	1

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-006-SA5C-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 05:26	Laura M Krieger	0.91
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 06:11	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 04:25	Sara E Johnson	22.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:05	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 17:02	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	12/30/2010 21:38	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 01:24	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/29/2010 21:04	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 18:20	Marie D John	24.13
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:54	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 03:12	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 23:27	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 03:43	Lindsey K Lafferty	1

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Sample Description: SL-006-SA5C-SB-4.0-5.0MSD Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 22:23	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 08:03	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/22/2010 02:45	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 02:45	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:07	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1

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Analysis Report

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

Sample Description: SL-006-SA5C-SB-4.0-5.0MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163873
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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14420 Albemarle Point Place
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Chantilly VA 20151

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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

Sample Description: SL-006-SA5C-SB-4.0-5.0DUP Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163874
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,900	5.51	21.9		1
07914	Boron	7440-42-8	6.58	0.975	5.48		1
01650	Calcium	7440-70-2	6,360	6.72	21.9		1
01654	Iron	7439-89-6	28,700	5.16	21.9		1
01656	Lithium	7439-93-2	24.9	0.24	2.2		1
01657	Magnesium	7439-95-4	5,900	2.78	11.0		1
06958	Manganese	7439-96-5	389	0.0855	0.548		1
10145	Phosphorus	7723-14-0	428	0.614	11.0		1
01662	Potassium	7440-09-7	3,270	19.7	54.8		1
01667	Sodium	7440-23-5	176	40.9	110		1
07968	Strontium	7440-24-6	29.4	0.0679	0.548		1
06969	Tin	7440-31-5	2.33 J	1.10	11.0		1
06970	Titanium	7440-32-6	1,390	0.833	2.19		2
10146	Zirconium	7440-67-7	4.57 J	0.920	5.48		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.165 J	0.0664	0.221		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.92	0.0664	0.443		2
06126	Barium	7440-39-3	139	0.120	0.443		2
06127	Beryllium	7440-41-7	0.961	0.0177	0.111		2
06128	Cadmium	7440-43-9	0.120	0.0398	0.111		2
06131	Chromium	7440-47-3	40.6	0.133	0.443		2
06132	Cobalt	7440-48-4	9.52	0.0221	0.111		2
06133	Copper	7440-50-8	12.9	0.0730	0.443		2
06135	Lead	7439-92-1	9.48	0.0115	0.221		2
06138	Molybdenum	7439-98-7	0.646	0.0553	0.111		2
06139	Nickel	7440-02-0	18.5	0.111	0.443		2
06141	Selenium	7782-49-2	0.265 J	0.0443	0.443		2
06142	Silver	7440-22-4	0.0262 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.366	0.0332	0.111		2
06148	Vanadium	7440-62-2	80.2	0.0243	0.111		2
06149	Zinc	7440-66-6	90.1	0.620	3.32		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032 U	0.0032	0.111		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.1	0.90	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	11.6	0.90	1.7		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	33.9		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.36 J	0.23	1.1		1

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

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

Sample Description: SL-006-SA5C-SB-4.0-5.0DUP Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163874
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03DUP

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	394	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.16	0.0100	0.0100		1
Wet Chemistry							
		EPA 160.3 modified	%	%	%	%	
11625	28a Moisture Content by 160.3	n.a.	11.4	0.50	0.50		1
11626	28a Moisture Content by 160.3	n.a.	11.7	0.50	0.50		1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 02:38	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:00	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:30	Choon Y Tian	2

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

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

Sample Description: SL-006-SA5C-SB-4.0-5.0DUP Soil
 SSFL Area IV Collocated Soil Sampling
 SL-006-SA5C-SB-4.0-5.0

LLI Sample # SW 6163874
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:45 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0645 SDG#: DE037-03DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010	17:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010	10:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010	17:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010	17:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010	17:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010	17:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010	17:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010	17:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010	17:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010	17:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010	17:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010	17:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010	17:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010	05:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010	20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010	20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010	23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011	14:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011	14:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011	01:31	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10364243201A	01/03/2011	23:47	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102201A	12/27/2010	18:49	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011	13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011	10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102201A	12/27/2010	08:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010	12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010	12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010	20:00	Daniel S Smith	1
11625	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010	05:26	William C Schwebel	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010	05:26	William C Schwebel	1

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



Analysis Report

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

Sample Description: EB-15-SA5B-121310 Water
 SSFL Area IV Collocated Soil Sampling
 EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

EB-15 SDG#: DE037-04EB

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

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

Sample Description: EB-15-SA5B-121310 Water
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

EB-15 SDG#: DE037-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2 U	2	5	5	1	1
10904	n-Propylbenzene	103-65-1	1 U	1	5	5	1	1
10904	Styrene	100-42-5	1 U	1	5	5	1	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1 U	1	5	5	1	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1 U	1	5	5	1	1
10904	Tetrachloroethene	127-18-4	0.8 U	0.8	5	5	1	1
10904	Toluene	108-88-3	0.7 U	0.7	5	5	1	1
10904	1,2,3-Trichlorobenzene	87-61-6	1 U	1	5	5	1	1
10904	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5	5	1	1
10904	1,1,1-Trichloroethane	71-55-6	0.8 U	0.8	5	5	1	1
10904	1,1,2-Trichloroethane	79-00-5	0.8 U	0.8	5	5	1	1
10904	Trichloroethene	79-01-6	1 U	1	5	5	1	1
10904	Trichlorofluoromethane	75-69-4	2 U	2	5	5	1	1
10904	1,2,3-Trichloropropane	96-18-4	1 U	1	5	5	1	1
10904	1,2,4-Trimethylbenzene	95-63-6	1 U	1	5	5	1	1
10904	1,3,5-Trimethylbenzene	108-67-8	1 U	1	5	5	1	1
10904	Vinyl Chloride	75-01-4	1 U	1	5	5	1	1
10904	m+p-Xylene	179601-23-1	0.8 U	0.8	5	5	1	1
10904	o-Xylene	95-47-6	0.8 U	0.8	5	5	1	1
Preservation requirements were not met. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 4.								
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5 U	0.5	2.0	2.0	1	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1 U	1	5	5	1	1
04678	Benzidine	92-87-5	20 U	20	60	60	1	1
04678	Benzoic acid	65-85-0	6 U	6	15	15	1	1
04678	Benzyl alcohol	100-51-6	5 U	5	15	15	1	1
04678	4-Bromophenyl-phenylether	101-55-3	1 U	1	5	5	1	1
04678	Carbazole	86-74-8	1 U	1	5	5	1	1
04678	4-Chloro-3-methylphenol	59-50-7	1 U	1	5	5	1	1
04678	4-Chloroaniline	106-47-8	1 U	1	5	5	1	1
04678	bis(2-Chloroethoxy)methane	111-91-1	1 U	1	5	5	1	1
04678	bis(2-Chloroethyl)ether	111-44-4	1 U	1	5	5	1	1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1 U	1	5	5	1	1
04678	2-Chloronaphthalene	91-58-7	2 U	2	5	5	1	1
04678	2-Chlorophenol	95-57-8	1 U	1	5	5	1	1
04678	4-Chlorophenyl-phenylether	7005-72-3	2 U	2	5	5	1	1
04678	Dibenzofuran	132-64-9	1 U	1	5	5	1	1
04678	1,2-Dichlorobenzene	95-50-1	1 U	1	5	5	1	1
04678	1,3-Dichlorobenzene	541-73-1	1 U	1	5	5	1	1
04678	1,4-Dichlorobenzene	106-46-7	1 U	1	5	5	1	1
04678	3,3'-Dichlorobenzidine	91-94-1	2 U	2	5	5	1	1
04678	2,4-Dichlorophenol	120-83-2	1 U	1	5	5	1	1

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

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

Sample Description: EB-15-SA5B-121310 Water
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

EB-15 SDG#: DE037-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	ug/l	ug/l	
04678	2,4-Dimethylphenol	105-67-9	3	U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10	U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5		1
04678	2,6-Dinitrotoluene	606-20-2	1	U	1	5		1
04678	1,2-Diphenylhydrazine	122-66-7	1	U	1	5		1
04678	Hexachlorobenzene	118-74-1	1	U	1	5		1
04678	Hexachlorobutadiene	87-68-3	1	U	1	5		1
04678	Hexachlorocyclopentadiene	77-47-4	5	U	5	15		1
04678	Hexachloroethane	67-72-1	1	U	1	5		1
04678	Isophorone	78-59-1	1	U	1	5		1
04678	2-Methylphenol	95-48-7	1	U	1	5		1
04678	4-Methylphenol	106-44-5	2	U	2	5		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.								
04678	2-Nitroaniline	88-74-4	1	U	1	5		1
04678	3-Nitroaniline	99-09-2	1	U	1	5		1
04678	4-Nitroaniline	100-01-6	1	U	1	5		1
04678	Nitrobenzene	98-95-3	1	U	1	5		1
04678	2-Nitrophenol	88-75-5	1	U	1	5		1
04678	4-Nitrophenol	100-02-7	10	U	10	30		1
04678	N-Nitroso-di-n-propylamine	621-64-7	1	U	1	5		1
04678	N-Nitrosodiphenylamine	86-30-6	2	U	2	5		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.								
04678	Pentachlorophenol	87-86-5	3	U	3	15		1
04678	Phenol	108-95-2	1	U	1	5		1
04678	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1	U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1	U	1	5		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010	U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010	U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010	U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010	U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010	U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010	U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010	U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010	U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.093	J	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.31	J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010	U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010	U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.11	J	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050	U	0.050	1.0		1

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

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

Sample Description: EB-15-SA5B-121310 Water
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

EB-15 SDG#: DE037-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles SW-846 8270C SIM		ug/l	ug/l	ug/l	ug/l	
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.24 J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010 U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010 U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010 U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.010 U	0.010	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.010 U	0.010	0.050		1
10137	Naphthalene	91-20-3	0.033 J	0.010	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010 U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.082 J	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.018 J	0.010	0.050		1
10137	Pyrene	129-00-0	0.010 U	0.010	0.050		1

The following compounds were detected in the method blank at the respective concentrations of:

diethylphthalate .063 ug/l
 di-n-butylphthalate .13 ug/l
 butylbenzylphthalate .076 ug/l
 bis(2-ethylhexyl)phthalate .11 ug/l
 di-n-octylphthalate .084 ug/l

These blank values were not subtracted from the analytical results.

Herbicides SW-846 8151A		ug/l	ug/l	ug/l	ug/l
10407	2,4-D	94-75-7	0.18 U	0.18	0.56
10407	Dalapon	75-99-0	0.28 U	0.28	1.4
10407	2,4-DB	94-82-6	0.33 U	0.33	1.1
10407	Dicamba	1918-00-9	0.089 U	0.089	0.33
10407	Dinoseb	88-85-7	0.11 U	0.11	0.56
10407	2,4-DP (Dichlorprop)	120-36-5	0.18 U	0.18	0.56
10407	MCPA	94-74-6	330 U	330	1,100
10407	MCPP	93-65-2	56 U	56	220
10407	2,4,5-T	93-76-5	0.017 U	0.017	0.056
10407	2,4,5-TP	93-72-1	0.011 U	0.011	0.056

Pesticides/PCBs SW-846 8081A		ug/l	ug/l	ug/l	ug/l
00177	Aldrin	309-00-2	0.0021 U	0.0021	0.010
00177	Alpha BHC	319-84-6	0.0031 U	0.0031	0.010
00177	Beta BHC	319-85-7	0.0030 U	0.0030	0.010
00177	Gamma BHC - Lindane	58-89-9	0.0021 U	0.0021	0.010
00177	Chlordane	57-74-9	0.13 U	0.13	0.52
00177	p,p-DDD	72-54-8	0.0052 U	0.0052	0.021
00177	p,p-DDE	72-55-9	0.0052 U	0.0052	0.021
00177	p,p-DDT	50-29-3	0.0052 U	0.0052	0.021
00177	Delta BHC	319-86-8	0.0030 U	0.0030	0.010
00177	Dieldrin	60-57-1	0.0056 U	0.0056	0.021
00177	Endosulfan I	959-98-8	0.0045 U	0.0045	0.010
00177	Endosulfan II	33213-65-9	0.016 U	0.016	0.021
00177	Endosulfan Sulfate	1031-07-8	0.0061 U	0.0061	0.021
00177	Endrin	72-20-8	0.0085 U	0.0085	0.021
00177	Endrin Aldehyde	7421-93-4	0.021 U	0.021	0.10
00177	Endrin Ketone	53494-70-5	0.0052 U	0.0052	0.021

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

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

Sample Description: EB-15-SA5B-121310 Water
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

EB-15 SDG#: DE037-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs SW-846 8081A							
00177	Heptachlor	76-44-8	0.0027 U	0.0027	0.010	ug/l	1
00177	Heptachlor Epoxide	1024-57-3	0.0024 U	0.0024	0.010		1
00177	Methoxychlor	72-43-5	0.031 U	0.031	0.10		1
00177	Mirex	2385-85-5	0.089 U	0.089	0.26		1
00177	Toxaphene	8001-35-2	1.0 U	1.0	3.1		1

Pesticides/PCBs SW-846 8082							
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
10227	Aroclor 5432	63496-31-1	0.10 U	0.10	0.52	ug/l	1
10227	Aroclor 5442	12642-23-8	0.10 U	0.10	0.52		1
10227	Aroclor 5460	11126-42-4	0.10 U	0.10	0.52		1
10227	PCB-1016	12674-11-2	0.10 U	0.10	0.52		1
10227	PCB-1221	11104-28-2	0.10 U	0.10	0.52		1
10227	PCB-1232	11141-16-5	0.21 U	0.21	0.52		1
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.52		1
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.52		1
10227	PCB-1254	11097-69-1	0.10 U	0.10	0.52		1
10227	PCB-1260	11096-82-5	0.10 U	0.10	0.52		1
10227	PCB-1262	37324-23-5	0.21 U	0.21	0.52		1
10227	PCB-1268	11100-14-4	0.17 U	0.17	0.52		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals SW-846 6010B							
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200	mg/l	1
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.0702		1
01754	Iron	7439-89-6	0.0522 U	0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U	0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U	0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500		1

Metals SW-846 6020							
CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010	mg/l	1
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038 U	0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020		1
06035	Lead	7439-92-1	0.000099 U	0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U	0.00025	0.00050		1

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



Analysis Report

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

Sample Description: EB-15-SA5B-121310 Water
 SSFL Area IV Collocated Soil Sampling
 EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Submitted: 12/14/2010 10:05 Suite 210
 Reported: 01/25/2011 16:47 Chantilly VA 20151

EB-15 SDG#: DE037-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6020		mg/l	mg/l	mg/l	mg/l	
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		mg/l	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry							
	EPA 300.0		mg/l	mg/l	mg/l	mg/l	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		ug/l	ug/l	ug/l	ug/l	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		ug/l	ug/l	ug/l	ug/l	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1
	EPA 150.1		Std. Units	Std. Units	Std. Units	Std. Units	
00200	22b pH by 9040B	n.a.	5.2	0.010	0.010		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103512AA	12/18/2010 00:05	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103491AA	12/15/2010 10:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103491AA	12/15/2010 10:47	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103512AA	12/18/2010 00:05	Frank A Valla, Jr	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10350WAB026	12/31/2010 22:37	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10349WAI026	12/22/2010 22:23	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10350WAB026	12/16/2010 14:50	Timothy J Attenberger	1

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



Analysis Report

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

Sample Description: EB-15-SA5B-121310 Water
SSFL Area IV Collocated Soil Sampling
EB-15-SA5B-121310

LLI Sample # WW 6163875
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:15 by BH

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

Submitted: 12/14/2010 10:05
Reported: 01/25/2011 16:47

EB-15 SDG#: DE037-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10466	BNA Water Extraction SIM	SW-846 3510C	1	10349WAI026	12/16/2010 09:30	Olivia Arosemena	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103490003A	12/17/2010 21:06	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103500016A	12/24/2010 11:15	Lisa A Reinert	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103500017A	12/22/2010 09:23	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103500017A	12/16/2010 21:25	Karen L Beyer	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103500016A	12/16/2010 21:25	Karen L Beyer	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103490003A	12/15/2010 12:30	Kelli M Barto	1
01743	Aluminum	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	103551848003	12/23/2010 16:59	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103551848003	12/23/2010 16:59	John P Hook	1
07058	Manganese	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	103551848003	12/23/2010 16:59	John P Hook	1
08068	Strontium	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	103551848003	12/23/2010 00:09	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103556050002D	12/23/2010 20:18	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103556050002C	12/23/2010 20:18	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103556050002B	12/23/2010 20:18	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103556050002A	12/23/2010 20:18	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103545713001	12/21/2010 06:26	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103551848003	12/22/2010 09:26	Denise K Connors	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103556050002	12/22/2010 08:48	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103545713001	12/20/2010 13:45	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10350196902A	12/17/2010 07:44	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10352658701A	12/18/2010 14:59	Venia B McFadden	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10348113001A	12/14/2010 11:57	Nicole M Kepley	1
00200	22b pH by 9040B	EPA 150.1	1	10351020001A	12/17/2010 19:45	Luz M Groff	1

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

Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7 U	6.7	8.0		0.92
06192	Benzene	71-43-2	0.10 U	0.10	4.0		0.92
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0		0.92
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0		0.92
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0		0.92
06192	Bromoform	75-25-2	0.40 U	0.40	4.0		0.92
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0		0.92
06192	2-Butanone	78-93-3	1.2 U	1.2	8.0		0.92
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0		0.92
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0		0.92
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0		0.92
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0		0.92
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0		0.92
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0		0.92
06192	Chloroform	67-66-3	0.14 J	0.12	4.0		0.92
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0		0.92
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0		0.92
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0		0.92
06192	Chlorotrifluoroethene	79-38-9	0.50 U	0.50	5.0		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70 U	0.70	4.0		0.92
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0		0.92
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0		0.92
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0		0.92
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0		0.92
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.0		0.92
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0		0.92
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0		0.92
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0		0.92
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0		0.92
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0		0.92
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0		0.92
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0		0.92
06192	Freon 113	76-13-1	0.11 U	0.11	4.0		0.92
06192	Freon 133a	75-88-7	0.50 U	0.50	5.0		0.92
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0		0.92
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.0		0.92
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0		0.92
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	8.0		0.92
06192	Methylene Chloride	75-09-2	2.5 J	0.24	4.0		0.92
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0		0.92

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Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	4.0		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0		0.92
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0		0.92
06192	Toluene	108-88-3	0.08 U	0.08	4.0		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0		0.92
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0		0.92
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.0		0.92
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0		0.92
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0		0.92
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0		0.92
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16		24.32
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	143	36.3	72.5		2
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	540		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U 180	540		1
04688	Benzyl alcohol	100-51-6	180	U 180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180		1
04688	4-Chloroaniline	106-47-8	73	U 73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540		1
04688	2,4-Dinitrophenol	51-28-5	730	U 730	2,200		1

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Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U 18	360		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	73	U 73	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U 0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.73	U 0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.73	U 0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.73	U 0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.73	U 0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U 0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	20		1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U 0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	20		1
10138	Fluoranthene	206-44-0	0.73	U 0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U 0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U 0.73	1.8		1

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Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	1-Methylnaphthalene	90-12-0	0.73 U	0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73 U	0.73	1.8		1
10138	Naphthalene	91-20-3	0.73 U	0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	20		1
10138	Phenanthrene	85-01-8	0.73 U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73 U	0.73	1.8		1
GC Volatiles		TPH GRO SW-846 8015B mod	mg/kg	mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1		22.77
Explosives		SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82 U	82	160	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54 U	54	160	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	330	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	330	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	54 U	54	160	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	54 U	54	160	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	54 U	54	160	1000000	1
10132	HMX	2691-41-0	140 U	140	410	1000000	1
10132	Nitrobenzene	98-95-3	54 U	54	160	1000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,300	1000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1000000	1
10132	3-Nitrotoluene	99-08-1	140 U	140	160	1000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,300	1000000	1
10132	RDX	121-82-4	68 U	68	160	1000000	1
10132	Tetryl	479-45-8	83 U	83	160	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	54 U	54	160	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54 U	54	160	1000000	1

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Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics								
		SW-846 8315A	ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by	8315A 50-00-0	650 U		650	1,600		1
Pesticides/PCBs								
		SW-846 8082	ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U		1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1 U		1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.9 J		1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36 U		0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54 U		0.54	1.8		1
10225	PCB-1232	11141-16-5	0.57 U		0.57	1.8		1
10225	PCB-1242	53469-21-9	0.54 U		0.54	1.8		1
10225	PCB-1248	12672-29-6	5.1		0.36	1.8		1
10225	PCB-1254	11097-69-1	2.8		0.36	1.8		1
10225	PCB-1260	11096-82-5	0.71 J		0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36 U		0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36 U		0.36	1.8		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Miscellaneous								
		SW-846 8015B	ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U		110	540		1
10501	Isopropanol	67-63-0	110 U		110	540		1
10501	Methanol	67-56-1	110 U		110	540		1
Terphenyls								
		SW-846 8015B	mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6 U		1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6 U		1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6 U		1.6	3.8		1
Metals								
		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,200		5.37	21.3		1
07914	Boron	7440-42-8	4.96 J		0.949	5.33		1
01650	Calcium	7440-70-2	5,190		6.54	21.3		1
01654	Iron	7439-89-6	20,800		5.02	21.3		1
01656	Lithium	7439-93-2	19.4		0.23	2.1		1
01657	Magnesium	7439-95-4	4,250		2.71	10.7		1
06958	Manganese	7439-96-5	262		0.0832	0.533		1
10145	Phosphorus	7723-14-0	430		0.597	10.7		1
01662	Potassium	7440-09-7	2,790		19.2	53.3		1
01667	Sodium	7440-23-5	201		39.8	107		1
07968	Strontium	7440-24-6	25.0		0.0661	0.533		1
06969	Tin	7440-31-5	2.45 J		1.07	10.7		1
06970	Titanium	7440-32-6	1,230		0.811	2.13		2
10146	Zirconium	7440-67-7	1.20 J		0.896	5.33		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.156 J		0.0646	0.215		2

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Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals			mg/kg	mg/kg	mg/kg	mg/kg	
SW-846 6020							
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.80	0.0646	0.431		2
06126	Barium	7440-39-3	138	0.116	0.431		2
06127	Beryllium	7440-41-7	0.657	0.0172	0.108		2
06128	Cadmium	7440-43-9	0.0887 J	0.0388	0.108		2
06131	Chromium	7440-47-3	24.3	0.129	0.431		2
06132	Cobalt	7440-48-4	7.35	0.0215	0.108		2
06133	Copper	7440-50-8	11.4	0.0711	0.431		2
06135	Lead	7439-92-1	6.51	0.0112	0.215		2
06138	Molybdenum	7439-98-7	0.684	0.0539	0.108		2
06139	Nickel	7440-02-0	12.0	0.108	0.431		2
06141	Selenium	7782-49-2	0.141 J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0301 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.380	0.0323	0.108		2
06148	Vanadium	7440-62-2	57.3	0.0237	0.108		2
06149	Zinc	7440-66-6	94.7	0.603	3.23		2
SW-846 7471A			mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry			mg/kg	mg/kg	mg/kg	mg/kg	
EPA 300.0							
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8	0.87	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	8.0	0.87	1.6		1
EPA 314.0			ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.6		1
SW-846 7199			mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
SW-846 9012B			mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
ASTM D1498			mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	398	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified			Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.48	0.0100	0.0100		1
Wet Chemistry			%	%	%	%	
EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	8.1	0.50	0.50		1

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

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

Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0745 SDG#: DE037-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
	EPA 160.3 modified		%	%	%	%	
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-007-SA5C-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 06:33	Laura M Krieger	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 05:05	Sara E Johnson	24.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:11	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 17:07	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 16:12	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 02:40	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/29/2010 22:45	Chad A Moline	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 18:57	Marie D John	22.77
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:53	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 03:54	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 23:37	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 04:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1

*-This limit was used in the evaluation of the final result
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Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0745 SDG#: DE037-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103500005A	12/17/2010 19:47	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 14:02	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103500005A	12/16/2010 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:00	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:30	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:54	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 15:13	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 15:13	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 03:08	Venia B McFadden	1

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



Analysis Report

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

Sample Description: SL-007-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-4.0-5.0

LLI Sample # SW 6163876
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0745 SDG#: DE037-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011	00:11	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010	20:10	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011	13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011	10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010	17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010	12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010	12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010	20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010	05:26	William C Schwebel	1

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



Analysis Report

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

Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4 U	7.4	8.8		1
06192	Benzene	71-43-2	0.11 U	0.11	4.4		1
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.4		1
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.4		1
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.4		1
06192	Bromoform	75-25-2	0.44 U	0.44	4.4		1
06192	Bromomethane	74-83-9	0.28 U	0.28	4.4		1
06192	2-Butanone	78-93-3	1.3 U	1.3	8.8		1
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.4		1
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.4		1
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.4		1
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.4		1
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.4		1
06192	Chloroethane	75-00-3	0.14 U	0.14	4.4		1
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33 U	0.33	4.4		1
06192	Chloroform	67-66-3	0.13 U	0.13	4.4		1
06192	Chloromethane	74-87-3	0.36 U	0.36	4.4		1
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.4		1
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.4		1
06192	Chlorotrifluoroethene	79-38-9	0.55 U	0.55	5.5		1
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77 U	0.77	4.4		1
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.4		1
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.4		1
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.4		1
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.4		1
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.4		1
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.4		1
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.4		1
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.4		1
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.4		1
06192	1,1-Dichloroethene	75-35-4	0.43 U	0.43	4.4		1
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.4		1
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.4		1
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.4		1
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.4		1
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.4		1
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.4		1
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.4		1
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.4		1
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.4		1
06192	Freon 113	76-13-1	0.12 U	0.12	4.4		1
06192	Freon 133a	75-88-7	0.55 U	0.55	5.5		1
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.4		1
06192	2-Hexanone	591-78-6	1.8 U	1.8	8.8		1
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.4		1
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.4		1
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.4		1
06192	4-Methyl-2-pentanone	108-10-1	0.43 U	0.43	8.8		1
06192	Methylene Chloride	75-09-2	1.4 J	0.26	4.4		1
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.4		1

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

Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.4		1
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.4		1
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.4		1
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.4		1
06192	Toluene	108-88-3	0.09 U	0.09	4.4		1
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.4		1
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.4		1
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.4		1
06192	1,1,2-Trichloroethane	79-00-5	0.30 U	0.30	4.4		1
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.4		1
06192	Trichlorofluoromethane	75-69-4	0.32 U	0.32	4.4		1
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36	4.4		1
06192	1,2,4-Trimethylbenzene	95-63-6	0.44 U	0.44	4.4		1
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.4		1
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.4		1
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.4		1
06192	o-Xylene	95-47-6	0.19 U	0.19	4.4		1
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.0 U	5.0	15		22.85
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	105	36.7	73.4		2
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	550		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U 180	550		1
04688	Benzyl alcohol	100-51-6	180	U 180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	180		1
04688	4-Chloroaniline	106-47-8	73	U 73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U 730	2,200		1

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Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U 18	370		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	550		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	37	U 37	180		1
04688	4-Methylphenol	106-44-5	37	U 37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	37	U 37	180		1
04688	4-Nitroaniline	100-01-6	73	U 73	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	550		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U 0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U 0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.7	U 0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.0	U 0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.2	U 0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J 0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.5	J 0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U 6.6	20		1
10138	Di-n-butylphthalate	84-74-2	12	J 6.6	20		1
10138	Chrysene	218-01-9	3.0	U 0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U 0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U 6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U 6.6	20		1
10138	Fluoranthene	206-44-0	4.3	U 0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U 0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.98	J 0.73	1.8		1

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Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.73 U	0.73	1.8	ug/kg	1
10138	2-Methylnaphthalene	91-57-6	0.73 U	0.73	1.8	ug/kg	1
10138	Naphthalene	91-20-3	0.73 U	0.73	1.8	ug/kg	1
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8	ug/kg	1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20	ug/kg	1
10138	Phenanthrene	85-01-8	1.1 J	0.73	1.8	ug/kg	1
10138	Pyrene	129-00-0	3.6	0.73	1.8	ug/kg	1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1.1	mg/kg	23.85
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83 U	83	170	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55 U	55	170	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	330	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	330	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	55 U	55	170	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	55 U	55	170	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	55 U	55	170	1000000	1
10132	HMX	2691-41-0	140 U	140	410	1000000	1
10132	Nitrobenzene	98-95-3	55 U	55	170	1000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,300	1000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	170	1000000	1
10132	3-Nitrotoluene	99-08-1	140 U	140	170	1000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	170	1000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,300	1000000	1
10132	RDX	121-82-4	69 U	69	170	1000000	1
10132	Tetryl	479-45-8	84 U	84	170	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55 U	55	170	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55 U	55	170	1000000	1

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 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics								
	SW-846 8315A		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	3,000		660	1,700		1
Pesticides/PCBs								
	SW-846 8082		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55	U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57	U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55	U	0.55	1.9		1
10225	PCB-1248	12672-29-6	1.4	J	0.36	1.9		1
10225	PCB-1254	11097-69-1	1.1	J	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.88	J	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Miscellaneous								
	SW-846 8015B		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	550		1
10501	Isopropanol	67-63-0	110	U	110	550		1
10501	Methanol	67-56-1	140	J	110	550		1
Terphenyls								
	SW-846 8015B		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	3.9		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	3.9		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	3.9		1
Metals								
	SW-846 6010B		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,600		5.43	21.6		1
07914	Boron	7440-42-8	5.74		0.961	5.40		1
01650	Calcium	7440-70-2	3,910		6.62	21.6		1
01654	Iron	7439-89-6	19,900		5.09	21.6		1
01656	Lithium	7439-93-2	19.5		0.24	2.2		1
01657	Magnesium	7439-95-4	3,980		2.74	10.8		1
06958	Manganese	7439-96-5	251		0.0842	0.540		1
10145	Phosphorus	7723-14-0	310		0.605	10.8		1
01662	Potassium	7440-09-7	2,560		19.4	54.0		1
01667	Sodium	7440-23-5	175		40.3	108		1
07968	Strontium	7440-24-6	22.7		0.0669	0.540		1
06969	Tin	7440-31-5	2.43	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,210		0.821	2.16		2
10146	Zirconium	7440-67-7	2.75	J	0.907	5.40		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.132	J	0.0642	0.214		2

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Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.29	0.0642	0.428		2
06126	Barium	7440-39-3	132	0.115	0.428		2
06127	Beryllium	7440-41-7	0.814	0.0171	0.107		2
06128	Cadmium	7440-43-9	0.128	0.0385	0.107		2
06131	Chromium	7440-47-3	28.0	0.128	0.428		2
06132	Cobalt	7440-48-4	7.08	0.0214	0.107		2
06133	Copper	7440-50-8	10.8	0.0706	0.428		2
06135	Lead	7439-92-1	7.95	0.0111	0.214		2
06138	Molybdenum	7439-98-7	1.16	0.0535	0.107		2
06139	Nickel	7440-02-0	14.5	0.107	0.428		2
06141	Selenium	7782-49-2	0.185 J	0.0428	0.428		2
06142	Silver	7440-22-4	0.0588 J	0.0128	0.107		2
06145	Thallium	7440-28-0	0.379	0.0321	0.107		2
06148	Vanadium	7440-62-2	52.7	0.0235	0.107		2
06149	Zinc	7440-66-6	90.9	0.599	3.21		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0043 J	0.0031	0.108		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.9	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2 J	0.88	1.7		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.55		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	395	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.44	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50		1

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Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0791 SDG#: DE037-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
	EPA 160.3 modified		%	%	%	%	
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-007-SA5C-SB-9.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 06:55	Laura M Krieger	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 05:24	Sara E Johnson	22.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:16	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 17:13	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 16:29	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 03:05	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 04:16	Linda M Hartenstine	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 19:33	Marie D John	23.85
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:52	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 06:01	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 23:46	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 04:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1

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Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
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S0791 SDG#: DE037-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 22:37	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 17:01	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:03	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:33	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 17:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 17:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 17:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 17:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 15:28	Ashley M Adams	1

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

Sample Description: SL-007-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-007-SA5C-SB-9.0-10.0

LLI Sample # SW 6163877
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 12:14 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0791 SDG#: DE037-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 15:28	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 03:32	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 00:27	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:12	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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

Sample Description: SL-075-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163878
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S7505 SDG#: DE037-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	530		1
04688	Benzidine	92-87-5	1,200	U 1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U 180	530		1
04688	Benzyl alcohol	100-51-6	180	U 180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U 35	180		1
04688	4-Chloroaniline	106-47-8	71	U 71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U 35	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U 35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U 35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U 710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U 35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U 71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	530		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	35	U 35	180		1
04688	4-Methylphenol	106-44-5	35	U 35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	35	U 35	180		1
04688	4-Nitroaniline	100-01-6	71	U 71	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	530		1
04688	Phenol	108-95-2	18	U 18	180		1

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

Sample Description: SL-075-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163878
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S7505 SDG#: DE037-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U 35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U 35	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U 0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U 0.35	1.8		1
10138	Anthracene	120-12-7	0.49	J 0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.9	U 0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	5.6	U 0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	10	U 0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	4.2	U 0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	4.1	U 0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U 6.4	19		1
10138	Di-n-butylphthalate	84-74-2	8.2	J 6.4	19		1
10138	Chrysene	218-01-9	8.7	U 0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	J 0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U 6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U 6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J 6.4	19		1
10138	Fluoranthene	206-44-0	12	U 0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U 0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.5	U 0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U 0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71	U 0.71	1.8		1
10138	Naphthalene	91-20-3	0.71	U 0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U 0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U 6.4	19		1
10138	Phenanthrene	85-01-8	4.3	U 0.71	1.8		1
10138	Pyrene	129-00-0	9.8	U 0.71	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.3	U 1.3	3.8
10401	Dalapon	75-99-0	4.7	U 4.7	9.6
10401	2,4-DB	94-82-6	6.8	U 6.8	6.8
10401	Dicamba	1918-00-9	0.94	J 0.43	1.3
10401	Dinoseb	88-85-7	0.85	U 0.85	2.6
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U 0.85	1.8
10401	MCPA	94-74-6	81	U 81	270
10401	MCP (Mecoprop)	93-65-2	280	U 80	270
10401	2,4,5-T	93-76-5	0.087	U 0.087	0.18
10401	2,4,5-TP	93-72-1	0.080	U 0.080	0.18

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

MCP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold

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

Sample Description: SL-075-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163878
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S7505 SDG#: DE037-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported.							
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4-DB.							
Pesticides/PCBs		SW-846 8081A	ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070 U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036 U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064 U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036 U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85 U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.070 U	0.070	0.36		1
01363	p,p-DDE	72-55-9	0.070 U	0.070	0.36		1
01363	p,p-DDT	50-29-3	0.070 U	0.070	0.36		1
01363	Delta BHC	319-86-8	0.038 U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.070 U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047 U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070 U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070 U	0.070	0.36		1
01363	Endrin	72-20-8	0.070 U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070 U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070 U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064 U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.036 U	0.036	0.18		1
01363	Methoxychlor	72-43-5	0.36 U	0.36	1.8		1
01363	Mirex	2385-85-5	0.070 U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3 U	2.3	7.0		1

The surrogate TCX recovery in the LCS is outside the QC limits.

Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

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

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	2.9 J	1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35 U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53 U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55 U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53 U	0.53	1.8	1
10225	PCB-1248	12672-29-6	2.6	0.35	1.8	1
10225	PCB-1254	11097-69-1	5.1	0.35	1.8	1
10225	PCB-1260	11096-82-5	3.5	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35 U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35 U	0.35	1.8	1

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

Sample Description: SL-075-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163878
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S7505 SDG#: DE037-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,600	5.30	21.1		1
07914	Boron	7440-42-8	3.61 J	0.938	5.27		1
01650	Calcium	7440-70-2	3,640	6.46	21.1		1
01654	Iron	7439-89-6	24,500	4.97	21.1		1
01656	Lithium	7439-93-2	26.6	0.23	2.1		1
01657	Magnesium	7439-95-4	5,230	2.68	10.5		1
06958	Manganese	7439-96-5	337	0.0822	0.527		1
10145	Phosphorus	7723-14-0	509	0.590	10.5		1
01662	Potassium	7440-09-7	3,410	19.0	52.7		1
01667	Sodium	7440-23-5	119	39.3	105		1
07968	Strontium	7440-24-6	18.5	0.0654	0.527		1
06969	Tin	7440-31-5	2.61 J	1.05	10.5		1
06970	Titanium	7440-32-6	1,330	0.801	2.11		2
10146	Zirconium	7440-67-7	2.25 J	0.886	5.27		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.193 J	0.0626	0.209		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.68	0.0626	0.418		2
06126	Barium	7440-39-3	151	0.113	0.418		2
06127	Beryllium	7440-41-7	0.777	0.0167	0.104		2
06128	Cadmium	7440-43-9	0.173	0.0376	0.104		2
06131	Chromium	7440-47-3	28.5	0.125	0.418		2
06132	Cobalt	7440-48-4	8.89	0.0209	0.104		2
06133	Copper	7440-50-8	15.1	0.0689	0.418		2
06135	Lead	7439-92-1	10.0	0.0109	0.209		2
06138	Molybdenum	7439-98-7	0.843	0.0522	0.104		2
06139	Nickel	7440-02-0	16.9	0.104	0.418		2
06141	Selenium	7782-49-2	0.199 J	0.0418	0.418		2
06142	Silver	7440-22-4	0.173	0.0125	0.104		2
06145	Thallium	7440-28-0	0.378	0.0313	0.104		2
06148	Vanadium	7440-62-2	52.3	0.0230	0.104		2
06149	Zinc	7440-66-6	127	0.585	3.13		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7	0.85	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	31.9		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	

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

Sample Description: SL-075-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163878
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S7505 SDG#: DE037-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.46 J	0.21	1.1	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	425	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	7.77	0.0100	0.0100	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	6.1	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 03:31	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 04:51	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010 01:42	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 01:23	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 04:39	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1

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Sample Description: SL-075-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-075-SA5B-SS-0.0-0.5

LLI Sample # SW 6163878
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 09:03 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S7505 SDG#: DE037-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:14	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:37	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:00	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:40	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 05:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 15:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 03:56	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10364243201A	01/04/2011 00:51	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

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Sample Description: SL-077-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0705 SDG#: DE037-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	540		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U 180	540		1
04688	Benzyl alcohol	100-51-6	180	U 180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180		1
04688	4-Chloroaniline	106-47-8	72	U 72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U 720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	72	U 72	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1

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Sample Description: SL-077-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0705 SDG#: DE037-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U 0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.7	J 0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.8	J 0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.8	U 0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J 0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J 0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	19		1
10138	Chrysene	218-01-9	3.1	U 0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U 0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.0	J 6.5	19		1
10138	Fluoranthene	206-44-0	3.7	U 0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U 0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J 0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.72	U 0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.72	U 0.72	1.8		1
10138	Naphthalene	91-20-3	0.72	U 0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U 0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U 6.5	19		1
10138	Phenanthrene	85-01-8	1.4	J 0.72	1.8		1
10138	Pyrene	129-00-0	3.0	U 0.72	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.3	U 1.3	3.9
10401	Dalapon	75-99-0	4.7	U 4.7	9.7
10401	2,4-DB	94-82-6	6.9	U 6.9	6.9
10401	Dicamba	1918-00-9	0.43	U 0.43	1.3
10401	Dinoseb	88-85-7	0.86	U 0.86	2.6
10401	2,4-DP (Dichlorprop)	120-36-5	1.7	U 1.7	1.8
10401	MCPA	94-74-6	520	U 520	520
10401	MCPP (Mecoprop)	93-65-2	230	U 230	270
10401	2,4,5-T	93-76-5	0.088	U 0.088	0.18
10401	2,4,5-TP	93-72-1	0.081	U 0.081	0.18

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

MCPP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold

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Analysis Report

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

Sample Description: SL-077-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Submitted: 12/14/2010 10:05 Suite 210
 Reported: 01/25/2011 16:47 Chantilly VA 20151

S0705 SDG#: DE037-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
<p>time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported.</p> <p>When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and MCPA.</p> <p>Due to interfering peaks on the chromatogram, the values reported for 2,4-DP and 2,4-DB represent the lowest reporting limits attainable.</p>							
Perchlorate							
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007 14797-73-0	2.3 U	ug/kg 2.3	ug/kg 5.4	ug/kg	1
Pesticides/PCBs							
01363	Aldrin	SW-846 8081A 309-00-2	0.071 U	ug/kg 0.071	ug/kg 0.18	ug/kg	1
01363	Alpha BHC	319-84-6	0.037 U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.63	0.065	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.037 U	0.037	0.18		1
01363	Chlordane	57-74-9	0.86 U	0.86	3.7		1
01363	p,p-DDD	72-54-8	2.6 U	2.6	2.6		1
01363	p,p-DDE	72-55-9	0.071 U	0.071	0.37		1
01363	p,p-DDT	50-29-3	2.1 U	2.1	2.1		1
01363	Delta BHC	319-86-8	0.31	0.039	0.18		1
01363	Dieldrin	60-57-1	0.68 U	0.68	0.68		1
01363	Endosulfan I	959-98-8	0.047 U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.62 U	0.62	0.62		1
01363	Endosulfan Sulfate	1031-07-8	0.071 U	0.071	0.37		1
01363	Endrin	72-20-8	0.071 U	0.071	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.46 U	0.46	0.46		1
01363	Endrin Ketone	53494-70-5	0.071 U	0.071	0.37		1
01363	Heptachlor	76-44-8	0.065 U	0.065	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.20 U	0.20	0.20		1
01363	Methoxychlor	72-43-5	0.37 U	0.37	1.8		1
01363	Mirex	2385-85-5	0.39 U	0.39	0.39		1
01363	Toxaphene	8001-35-2	2.4 U	2.4	7.1		1
<p>The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.</p> <p>Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.</p>							
Pesticides/PCBs							
10225	Aroclor 5432	SW-846 8082 63496-31-1	1.1 U	ug/kg 1.1	ug/kg 3.6	ug/kg	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.3 J	1.1	3.6		1

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Sample Description: SL-077-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0705 SDG#: DE037-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54 U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56 U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54 U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.8		1
10225	PCB-1254	11097-69-1	2.4	0.36	1.8		1
10225	PCB-1260	11096-82-5	1.4 J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	14,300	5.31	21.1	1
07914	Boron	7440-42-8	2.83 J	0.939	5.28	1
01650	Calcium	7440-70-2	3,660	6.47	21.1	1
01654	Iron	7439-89-6	25,000	4.97	21.1	1
01656	Lithium	7439-93-2	34.4	0.23	2.1	1
01657	Magnesium	7439-95-4	5,490	2.68	10.6	1
06958	Manganese	7439-96-5	298	0.0823	0.528	1
10145	Phosphorus	7723-14-0	517	0.591	10.6	1
01662	Potassium	7440-09-7	2,400	19.0	52.8	1
01667	Sodium	7440-23-5	90.4 J	39.4	106	1
07968	Strontium	7440-24-6	17.6	0.0654	0.528	1
06969	Tin	7440-31-5	2.62 J	1.06	10.6	1
06970	Titanium	7440-32-6	1,370	0.802	2.11	2
10146	Zirconium	7440-67-7	1.35 J	0.886	5.28	1

		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg
06124	Antimony	7440-36-0	0.215	0.0633	0.211	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.71	0.0633	0.422	2
06126	Barium	7440-39-3	97.9	0.114	0.422	2
06127	Beryllium	7440-41-7	0.636	0.0169	0.106	2
06128	Cadmium	7440-43-9	0.130	0.0380	0.106	2
06131	Chromium	7440-47-3	24.4	0.127	0.422	2
06132	Cobalt	7440-48-4	6.67	0.0211	0.106	2
06133	Copper	7440-50-8	12.4	0.0697	0.422	2
06135	Lead	7439-92-1	6.50	0.0110	0.211	2
06138	Molybdenum	7439-98-7	0.538	0.0528	0.106	2
06139	Nickel	7440-02-0	15.7	0.106	0.422	2
06141	Selenium	7782-49-2	0.0944 J	0.0422	0.422	2
06142	Silver	7440-22-4	0.0576 J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.332	0.0317	0.106	2
06148	Vanadium	7440-62-2	45.2	0.0232	0.106	2
06149	Zinc	7440-66-6	84.3	0.591	3.17	2

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

Sample Description: SL-077-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0705 SDG#: DE037-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
00159	Mercury	SW-846 7471A 7439-97-6	0.0036 J	mg/kg 0.0029	mg/kg 0.102	mg/kg	1
Wet Chemistry							
07332	11a Anions by 300.0 - Fluoride	EPA 300.0 16984-48-8	2.5	mg/kg 0.86	mg/kg 1.1	mg/kg	1
10147	7a Perchlorate	EPA 314.0 14797-73-0	9.7 U	ug/kg 9.7	ug/kg 32.3	ug/kg	1
05892	3a Cr VI by EPA 7199	SW-846 7199 18540-29-9	0.22 U	mg/kg 0.22	mg/kg 1.1	mg/kg	1
01821	Oxidation Reduction Potential	ASTM D1498 n.a.	411	mV 10.0	mV 10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
00394	22a pH by 9045C	SW-846 9045C modified n.a.	7.37	Std. Units 0.0100	Std. Units 0.0100	Std. Units	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified n.a.	7.1	% 0.50	% 0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 03:56	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 05:23	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010 03:05	John W Perkins	1

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

Sample Description: SL-077-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0705 SDG#: DE037-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
06557	6a Perchlorate EPA 6850	SW-846 6850	1/2007	1	103490017A	12/20/2010 17:44	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A		1	103550006A	01/06/2011 01:37	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082		1	103510032A	12/23/2010 04:58	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B		1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B		1	103510032A	12/20/2010 07:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A		1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850	1/2007	1	103490017A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
07914	Boron	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
01650	Calcium	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
01654	Iron	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
01656	Lithium	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
01657	Magnesium	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
06958	Manganese	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
10145	Phosphorus	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
01662	Potassium	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
01667	Sodium	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
07968	Strontium	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
06969	Tin	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
06970	Titanium	SW-846 6010B		1	103515708003	12/22/2010 03:17	Tara L Snyder	2
10146	Zirconium	SW-846 6010B		1	103515708003	12/20/2010 20:41	John P Hook	1
06124	Antimony	SW-846 6020		1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06125	Arsenic	SW-846 6020		1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06126	Barium	SW-846 6020		1	103511026001D	12/23/2010 18:03	Choon Y Tian	2
06127	Beryllium	SW-846 6020		1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06128	Cadmium	SW-846 6020		1	103511026001A	12/24/2010 10:45	Choon Y Tian	2
06131	Chromium	SW-846 6020		1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06132	Cobalt	SW-846 6020		1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06133	Copper	SW-846 6020		1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06135	Lead	SW-846 6020		1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020		1	103511026001C	12/23/2010 18:03	Choon Y Tian	2
06139	Nickel	SW-846 6020		1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06141	Selenium	SW-846 6020		1	103511026001B	12/23/2010 18:03	Choon Y Tian	2
06142	Silver	SW-846 6020		1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06145	Thallium	SW-846 6020		1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06148	Vanadium	SW-846 6020		1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
06149	Zinc	SW-846 6020		1	103511026001A	12/23/2010 18:03	Choon Y Tian	2
00159	Mercury	SW-846 7471A		1	103515711002	12/20/2010 05:58	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B		1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B		1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified		1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1

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Sample Description: SL-077-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-077-SA5B-SS-0.0-0.5

LLI Sample # SW 6163879
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 10:04 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0705 SDG#: DE037-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 16:24	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 04:44	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 00:59	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

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

Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	9.2 U	9.2	11		1.29
06192	Benzene	71-43-2	0.14 U	0.14	5.5		1.29
06192	Bromobenzene	108-86-1	0.18 U	0.18	5.5		1.29
06192	Bromochloromethane	74-97-5	0.46 U	0.46	5.5		1.29
06192	Bromodichloromethane	75-27-4	0.11 U	0.11	5.5		1.29
06192	Bromoform	75-25-2	0.55 U	0.55	5.5		1.29
06192	Bromomethane	74-83-9	0.35 U	0.35	5.5		1.29
06192	2-Butanone	78-93-3	1.7 U	1.7	11		1.29
06192	n-Butylbenzene	104-51-8	0.17 U	0.17	5.5		1.29
06192	sec-Butylbenzene	135-98-8	0.08 U	0.08	5.5		1.29
06192	tert-Butylbenzene	98-06-6	0.22 U	0.22	5.5		1.29
06192	Carbon Tetrachloride	56-23-5	0.19 U	0.19	5.5		1.29
06192	Chlorobenzene	108-90-7	0.15 U	0.15	5.5		1.29
06192	Chloroethane	75-00-3	0.18 U	0.18	5.5		1.29
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.41 U	0.41	5.5		1.29
06192	Chloroform	67-66-3	0.17 U	0.17	5.5		1.29
06192	Chloromethane	74-87-3	0.46 U	0.46	5.5		1.29
06192	2-Chlorotoluene	95-49-8	0.19 U	0.19	5.5		1.29
06192	4-Chlorotoluene	106-43-4	0.19 U	0.19	5.5		1.29
06192	Chlorotrifluoroethene	79-38-9	0.69 U	0.69	6.9		1.29
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.97 U	0.97	5.5		1.29
06192	Dibromochloromethane	124-48-1	0.28 U	0.28	5.5		1.29
06192	1,2-Dibromoethane	106-93-4	0.23 U	0.23	5.5		1.29
06192	Dibromomethane	74-95-3	0.33 U	0.33	5.5		1.29
06192	1,2-Dichlorobenzene	95-50-1	0.12 U	0.12	5.5		1.29
06192	1,3-Dichlorobenzene	541-73-1	0.17 U	0.17	5.5		1.29
06192	1,4-Dichlorobenzene	106-46-7	0.22 U	0.22	5.5		1.29
06192	Dichlorodifluoromethane	75-71-8	0.17 U	0.17	5.5		1.29
06192	1,1-Dichloroethane	75-34-3	0.14 U	0.14	5.5		1.29
06192	1,2-Dichloroethane	107-06-2	0.21 U	0.21	5.5		1.29
06192	1,1-Dichloroethene	75-35-4	0.54 U	0.54	5.5		1.29
06192	cis-1,2-Dichloroethene	156-59-2	0.26 U	0.26	5.5		1.29
06192	trans-1,2-Dichloroethene	156-60-5	0.17 U	0.17	5.5		1.29
06192	1,2-Dichloropropane	78-87-5	0.23 U	0.23	5.5		1.29
06192	1,3-Dichloropropane	142-28-9	0.11 U	0.11	5.5		1.29
06192	2,2-Dichloropropane	594-20-7	0.23 U	0.23	5.5		1.29
06192	1,1-Dichloropropene	563-58-6	0.18 U	0.18	5.5		1.29
06192	cis-1,3-Dichloropropene	10061-01-5	0.22 U	0.22	5.5		1.29
06192	trans-1,3-Dichloropropene	10061-02-6	0.23 U	0.23	5.5		1.29
06192	Ethylbenzene	100-41-4	0.08 U	0.08	5.5		1.29
06192	Freon 113	76-13-1	0.15 U	0.15	5.5		1.29
06192	Freon 133a	75-88-7	0.69 U	0.69	6.9		1.29
06192	Hexachlorobutadiene	87-68-3	0.19 U	0.19	5.5		1.29
06192	2-Hexanone	591-78-6	2.2 U	2.2	11		1.29
06192	Isopropylbenzene	98-82-8	0.08 U	0.08	5.5		1.29
06192	p-Isopropyltoluene	99-87-6	0.15 U	0.15	5.5		1.29
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.29 U	0.29	5.5		1.29
06192	4-Methyl-2-pentanone	108-10-1	0.54 U	0.54	11		1.29
06192	Methylene Chloride	75-09-2	1.5 J	0.33	5.5		1.29
06192	n-Propylbenzene	103-65-1	0.1 U	0.1	5.5		1.29

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Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.14 U	0.14	5.5		1.29
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.15 U	0.15	5.5		1.29
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.32 U	0.32	5.5		1.29
06192	Tetrachloroethene	127-18-4	0.28 U	0.28	5.5		1.29
06192	Toluene	108-88-3	0.11 U	0.11	5.5		1.29
06192	1,2,3-Trichlorobenzene	87-61-6	0.19 U	0.19	5.5		1.29
06192	1,2,4-Trichlorobenzene	120-82-1	0.25 U	0.25	5.5		1.29
06192	1,1,1-Trichloroethane	71-55-6	0.28 U	0.28	5.5		1.29
06192	1,1,2-Trichloroethane	79-00-5	0.37 U	0.37	5.5		1.29
06192	Trichloroethene	79-01-6	0.21 U	0.21	5.5		1.29
06192	Trichlorofluoromethane	75-69-4	0.40 U	0.40	5.5		1.29
06192	1,2,3-Trichloropropane	96-18-4	0.46 U	0.46	5.5		1.29
06192	1,2,4-Trimethylbenzene	95-63-6	0.55 U	0.55	5.5		1.29
06192	1,3,5-Trimethylbenzene	108-67-8	0.14 U	0.14	5.5		1.29
06192	Vinyl Chloride	75-01-4	0.28 U	0.28	5.5		1.29
06192	m+p-Xylene	179601-23-1	0.23 U	0.23	5.5		1.29
06192	o-Xylene	95-47-6	0.23 U	0.23	5.5		1.29
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	6.6 U	6.6	20		31.02
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	108 J	89.3	179		5
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	540		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U 180	540		1
04688	Benzyl alcohol	100-51-6	180	U 180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180		1
04688	4-Chloroaniline	106-47-8	71	U 71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540		1
04688	2,4-Dinitrophenol	51-28-5	710	U 710	2,100		1

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Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U 71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	71	U 71	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U 0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.0	J 0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.6	J 0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.8	0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	2.4	0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.1	J 0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	14	J 6.4	19		1
10138	Di-n-butylphthalate	84-74-2	9.0	J 6.4	19		1
10138	Chrysene	218-01-9	2.8	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U 0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U 6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U 6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	44	6.4	19		1
10138	Fluoranthene	206-44-0	2.7	0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U 0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.99	J 0.71	1.8		1

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Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
			ug/kg	ug/kg	ug/kg	ug/kg	
10138	1-Methylnaphthalene	90-12-0	0.71 U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71 U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71 U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71 U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4 U	6.4	19		1
10138	Phenanthrene	85-01-8	1.3 J	0.71	1.8		1
10138	Pyrene	129-00-0	2.1	0.71	1.8		1
Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.							
GC Volatiles TPH GRO SW-846 8015B mod							
			mg/kg	mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	2.6 U	2.6	13		305.62
Reporting limits were raised due to sample foaming.							
Explosives SW-846 8330A							
			ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	80 U	80	160	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54 U	54	160	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	54 U	54	160	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	54 U	54	160	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	54 U	54	160	1000000	1
10132	HMX	2691-41-0	130 U	130	400	1000000	1
10132	Nitrobenzene	98-95-3	54 U	54	160	1000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200	1000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1000000	1
10132	3-Nitrotoluene	99-08-1	130 U	130	160	1000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,200	1000000	1
10132	RDX	121-82-4	67 U	67	160	1000000	1
10132	Tetryl	479-45-8	82 U	82	160	1000000	1

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 SSFL Area IV Collocated Soil Sampling
 SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
		SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	54	U 54	160	1000000	1
						0	
10132	2,4,6-Trinitrotoluene	118-96-7	54	U 54	160	1000000	1
						0	
Herbicides							
		SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U 1.3	3.9		1
10401	Dalapon	75-99-0	4.7	U 4.7	9.6		1
10401	2,4-DB	94-82-6	1.6	J 0.66	1.8		1
10401	Dicamba	1918-00-9	0.43	U 0.43	1.3		1
10401	Dinoseb	88-85-7	0.86	U 0.86	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.86	U 0.86	1.8		1
10401	MCPA	94-74-6	200	J 81	270		1
10401	MCPP (Mecoprop)	93-65-2	130	J 80	270		1
10401	2,4,5-T	93-76-5	0.093	U 0.093	0.18		1
10401	2,4,5-TP	93-72-1	0.080	U 0.080	0.18		1
<p>The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.</p> <p>MCPP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported.</p> <p>When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-T.</p>							
HPLC Organics							
		SW-846 8315A	ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by	8315A 50-00-0	640	U 640	1,600		1
Pesticides/PCBs							
		SW-846 8081A	ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.071	U 0.071	0.18		1
01363	Alpha BHC	319-84-6	0.036	U 0.036	0.18		1
01363	Beta BHC	319-85-7	0.064	U 0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.056	U 0.056	0.18		1
01363	Chlordane	57-74-9	0.86	U 0.86	3.6		1
01363	p,p-DDD	72-54-8	1.1	U 1.1	1.1		1
01363	p,p-DDE	72-55-9	1.7	U 1.7	1.7		1
01363	p,p-DDT	50-29-3	1.6	U 1.6	1.6		1
01363	Delta BHC	319-86-8	0.039	U 0.039	0.18		1
01363	Dieldrin	60-57-1	0.61	U 0.61	0.61		1
01363	Endosulfan I	959-98-8	0.047	U 0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.16	U 0.16	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.071	U 0.071	0.36		1
01363	Endrin	72-20-8	0.071	U 0.071	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.46	U 0.46	0.46		1

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Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		SW-846 8081A	ug/kg	ug/kg	ug/kg	ug/kg	
01363	Endrin Ketone	53494-70-5	0.071 U	0.071	0.36		1
01363	Heptachlor	76-44-8	0.16 U	0.16	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.29 U	0.29	0.29		1
01363	Methoxychlor	72-43-5	0.36 U	0.36	1.8		1
01363	Mirex	2385-85-5	0.16 U	0.16	0.36		1
01363	Toxaphene	8001-35-2	2.4 U	2.4	7.1		1

The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	5.4 U	5.4	18	5
10225	Aroclor 5442	12642-23-8	5.4 U	5.4	18	5
10225	Aroclor 5460	11126-42-4	9.7 J	5.4	18	5
10225	PCB-1016	12674-11-2	1.8 U	1.8	9.1	5
10225	PCB-1221	11104-28-2	2.7 U	2.7	9.1	5
10225	PCB-1232	11141-16-5	2.8 U	2.8	9.1	5
10225	PCB-1242	53469-21-9	2.7 U	2.7	9.1	5
10225	PCB-1248	12672-29-6	1.8 U	1.8	9.1	5
10225	PCB-1254	11097-69-1	73	1.8	9.1	5
10225	PCB-1260	11096-82-5	1.8 U	1.8	9.1	5
10225	PCB-1262	37324-23-5	1.8 U	1.8	9.1	5
10225	PCB-1268	11100-14-4	1.8 U	1.8	9.1	5

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

GC Miscellaneous		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg
10501	Ethanol	64-17-5	110 U	110	540	1
10501	Isopropanol	67-63-0	110 U	110	540	1
10501	Methanol	67-56-1	110 U	110	540	1

Terphenyls		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg
10318	m-Terphenyl	92-06-8	1.6 U	1.6	3.8	1
10318	o-Terphenyl	84-15-1	1.6 U	1.6	3.8	1
10318	p-Terphenyl	92-94-4	1.6 U	1.6	3.8	1

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	24,900	5.29	21.0	1
07914	Boron	7440-42-8	7.47	0.935	5.25	1
01650	Calcium	7440-70-2	23,100	6.44	21.0	1
01654	Iron	7439-89-6	24,800	4.95	21.0	1
01656	Lithium	7439-93-2	22.0	0.23	2.1	1

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 SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

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Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01657	Magnesium	7439-95-4	4,880	2.67	10.5		1
06958	Manganese	7439-96-5	356	0.0820	0.525		1
10145	Phosphorus	7723-14-0	422	0.588	10.5		1
01662	Potassium	7440-09-7	3,390	18.9	52.5		1
01667	Sodium	7440-23-5	259	39.2	105		1
07968	Strontium	7440-24-6	96.6	0.0651	0.525		1
06969	Tin	7440-31-5	2.65 J	1.05	10.5		1
06970	Titanium	7440-32-6	1,310	0.799	2.10		2
10146	Zirconium	7440-67-7	6.16	0.883	5.25		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.470	0.0618	0.206		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.71	0.0618	0.412		2
06126	Barium	7440-39-3	179	0.111	0.412		2
06127	Beryllium	7440-41-7	0.865	0.0165	0.103		2
06128	Cadmium	7440-43-9	0.490	0.0371	0.103		2
06131	Chromium	7440-47-3	53.6	0.124	0.412		2
06132	Cobalt	7440-48-4	9.05	0.0206	0.103		2
06133	Copper	7440-50-8	17.1	0.0680	0.412		2
06135	Lead	7439-92-1	13.3	0.0107	0.206		2
06138	Molybdenum	7439-98-7	10.7	0.0515	0.103		2
06139	Nickel	7440-02-0	22.8	0.103	0.412		2
06141	Selenium	7782-49-2	0.237 J	0.0412	0.412		2
06142	Silver	7440-22-4	0.0715 J	0.0124	0.103		2
06145	Thallium	7440-28-0	0.364	0.0309	0.103		2
06148	Vanadium	7440-62-2	59.0	0.0227	0.103		2
06149	Zinc	7440-66-6	147	0.577	3.09		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.161	0.0030	0.106		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.5	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.98 J	0.86	1.6		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	32.2		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.66 J	0.21	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1

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 SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
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S8505 SDG#: DE037-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	397	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.67	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 07:18	Laura M Krieger	1.29
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 05:44	Sara E Johnson	31.02
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:21	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:43	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:44	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 17:18	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/06/2011 09:49	Timothy J Trees	5
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 04:21	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 05:55	Linda M Hartenstine	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 20:20	Marie D John	305.62

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

Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8505 SDG#: DE037-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:50	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 06:44	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/22/2010 23:56	James H Place	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010 03:33	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 02:05	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 05:16	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103510008A	12/17/2010 22:57	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550026A	12/23/2010 08:47	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103510008A	12/17/2010 12:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:21	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:44	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:06	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:47	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:06	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2

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Analysis Report

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

Sample Description: SL-085-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-085-SA5B-SS-0.0-0.5

LLI Sample # SW 6163880
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:35 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8505 SDG#: DE037-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:06	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:06	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:00	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 16:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201A	01/05/2011 16:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 05:08	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10364243201A	01/04/2011 01:23	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:13	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Sample Description: SL-087-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8705 SDG#: DE037-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	550		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U 180	550		1
04688	Benzyl alcohol	100-51-6	180	U 180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180		1
04688	4-Chloroaniline	106-47-8	73	U 73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U 730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U 18	360		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	550		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	73	U 73	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	550		1

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Sample Description: SL-087-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8705 SDG#: DE037-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U 0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	3.4	0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.8	0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.8	0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.8	J 0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J 0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	14	J 6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U 6.6	20		1
10138	Chrysene	218-01-9	3.2	0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U 0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U 6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U 6.6	20		1
10138	Fluoranthene	206-44-0	4.0	0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U 0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.91	J 0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U 0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U 0.73	1.8		1
10138	Naphthalene	91-20-3	0.73	U 0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U 0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6	U 6.6	20		1
10138	Phenanthrene	85-01-8	0.73	U 0.73	1.8		1
10138	Pyrene	129-00-0	3.6	0.73	1.8		1
Herbicides	SW-846 8151A		ug/kg	ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.3	U 1.3	3.9		1
10401	Dalapon	75-99-0	4.8	U 4.8	9.8		1
10401	2,4-DB	94-82-6	2.9	0.68	1.9		1
10401	Dicamba	1918-00-9	0.54	J 0.44	1.3		1
10401	Dinoseb	88-85-7	0.87	U 0.87	2.6		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U 0.87	1.9		1
10401	MCPA	94-74-6	400	U 400	400		1
10401	MCPP (Mecoprop)	93-65-2	82	U 82	270		1
10401	2,4,5-T	93-76-5	0.090	U 0.090	0.19		1
10401	2,4,5-TP	93-72-1	0.082	U 0.082	0.19		1

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

MCPP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is

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Sample Description: SL-087-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8705 SDG#: DE037-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
	reported.						
	When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPA.						
Pesticides/PCBs	SW-846 8081A		ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.072 U	0.072	0.18		1
01363	Alpha BHC	319-84-6	0.037 U	0.037	0.18		1
01363	Beta BHC	319-85-7	0.066 U	0.066	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.056 U	0.056	0.18		1
01363	Chlordane	57-74-9	5.0 U	5.0	5.0		1
01363	p,p-DDD	72-54-8	1.5 U	1.5	1.5		1
01363	p,p-DDE	72-55-9	1.4 U	1.4	1.4		1
01363	p,p-DDT	50-29-3	2.1 U	2.1	2.1		1
01363	Delta BHC	319-86-8	0.039 U	0.039	0.18		1
01363	Dieldrin	60-57-1	0.64 U	0.64	0.64		1
01363	Endosulfan I	959-98-8	0.048 U	0.048	0.18		1
01363	Endosulfan II	33213-65-9	0.13 U	0.13	0.37		1
01363	Endosulfan Sulfate	1031-07-8	0.072 U	0.072	0.37		1
01363	Endrin	72-20-8	0.072 U	0.072	0.37		1
01363	Endrin Aldehyde	7421-93-4	0.44 U	0.44	0.44		1
01363	Endrin Ketone	53494-70-5	0.072 U	0.072	0.37		1
01363	Heptachlor	76-44-8	0.21 U	0.21	0.21		1
01363	Heptachlor Epoxide	1024-57-3	0.37 U	0.37	1.8		10
01363	Methoxychlor	72-43-5	0.37 U	0.37	1.8		1
01363	Mirex	2385-85-5	0.072 U	0.072	0.37		1
01363	Toxaphene	8001-35-2	2.4 U	2.4	7.2		1

The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained. Due to interfering peaks on the chromatogram, the values reported for heptachlor epoxide represent the lowest reporting limits attainable.

Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	2.2 U	2.2	7.2
10225	Aroclor 5442	12642-23-8	2.2 U	2.2	7.2
10225	Aroclor 5460	11126-42-4	5.1 J	2.2	7.2
10225	PCB-1016	12674-11-2	0.72 U	0.72	3.7
10225	PCB-1221	11104-28-2	1.1 U	1.1	3.7
10225	PCB-1232	11141-16-5	1.1 U	1.1	3.7
10225	PCB-1242	53469-21-9	1.1 U	1.1	3.7
10225	PCB-1248	12672-29-6	40	0.72	3.7
10225	PCB-1254	11097-69-1	16	0.72	3.7

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

Sample Description: SL-087-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8705 SDG#: DE037-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	PCB-1260	11096-82-5	11	0.72	3.7		2
10225	PCB-1262	37324-23-5	0.72 U	0.72	3.7		2
10225	PCB-1268	11100-14-4	0.72 U	0.72	3.7		2
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	17,800	5.39	21.4		1
07914	Boron	7440-42-8	5.31 J	0.954	5.36		1
01650	Calcium	7440-70-2	18,800	6.57	21.4		1
01654	Iron	7439-89-6	25,400	5.05	21.4		1
01656	Lithium	7439-93-2	24.1	0.24	2.1		1
01657	Magnesium	7439-95-4	5,190	2.72	10.7		1
06958	Manganese	7439-96-5	311	0.0836	0.536		1
10145	Phosphorus	7723-14-0	451	0.600	10.7		1
01662	Potassium	7440-09-7	3,220	19.3	53.6		1
01667	Sodium	7440-23-5	186	40.0	107		1
07968	Strontium	7440-24-6	58.7	0.0664	0.536		1
06969	Tin	7440-31-5	2.61 J	1.07	10.7		1
06970	Titanium	7440-32-6	1,360	0.814	2.14		2
10146	Zirconium	7440-67-7	3.44 J	0.900	5.36		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.405	0.0637	0.212		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.58	0.0637	0.424		2
06126	Barium	7440-39-3	143	0.115	0.424		2
06127	Beryllium	7440-41-7	0.733	0.0170	0.106		2
06128	Cadmium	7440-43-9	0.282	0.0382	0.106		2
06131	Chromium	7440-47-3	30.1	0.127	0.424		2
06132	Cobalt	7440-48-4	7.58	0.0212	0.106		2
06133	Copper	7440-50-8	14.8	0.0700	0.424		2
06135	Lead	7439-92-1	10.9	0.0110	0.212		2
06138	Molybdenum	7439-98-7	1.19	0.0531	0.106		2
06139	Nickel	7440-02-0	19.7	0.106	0.424		2
06141	Selenium	7782-49-2	0.136 J	0.0424	0.424		2
06142	Silver	7440-22-4	0.841	0.0127	0.106		2
06145	Thallium	7440-28-0	0.303	0.0318	0.106		2
06148	Vanadium	7440-62-2	54.1	0.0233	0.106		2
06149	Zinc	7440-66-6	133	0.594	3.18		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0304 J	0.0031	0.107		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.87 U	0.87	1.1		1

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

Sample Description: SL-087-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8705 SDG#: DE037-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	ug/kg	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.50 J	0.22	mg/kg	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	388	10.0	mV	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	8.70	0.0100	Std. Units	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	8.5	0.50	%	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 04:46	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 06:29	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010 04:01	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 02:19	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 02:33	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 06:49	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1

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

Sample Description: SL-087-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8705 SDG#: DE037-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:24	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:49	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:49	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 16:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 05:32	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 01:31	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101A	12/16/2010 12:10	Michelle L Lalli	1

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



Analysis Report

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

Sample Description: SL-087-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-087-SA5B-SS-0.0-0.5

LLI Sample # SW 6163881
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 13:17 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S8705 SDG#: DE037-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401A	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

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

Sample Description: SL-095-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163882
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9505 SDG#: DE037-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	530		1
04688	Benzidine	92-87-5	1,200	U 1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U 180	530		1
04688	Benzyl alcohol	100-51-6	180	U 180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U 35	180		1
04688	4-Chloroaniline	106-47-8	70	U 70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U 35	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U 35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U 35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	530		1
04688	2,4-Dinitrophenol	51-28-5	700	U 700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U 35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U 70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	530		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	35	U 35	180		1
04688	4-Methylphenol	106-44-5	35	U 35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	35	U 35	180		1
04688	4-Nitroaniline	100-01-6	70	U 70	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	530		1
04688	Phenol	108-95-2	18	U 18	180		1

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

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

Sample Description: SL-095-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163882
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9505 SDG#: DE037-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U 35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U 35	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U 0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U 0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U 0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	2.2	U 0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	3.0	U 0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	5.6	U 0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.9	U 0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.9	U 0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U 6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U 6.3	19		1
10138	Chrysene	218-01-9	3.4	U 0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U 0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U 6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U 6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16	J 6.3	19		1
10138	Fluoranthene	206-44-0	3.2	U 0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U 0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.4	J 0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U 0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U 0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U 0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U 0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U 6.3	19		1
10138	Phenanthrene	85-01-8	1.2	J 0.70	1.8		1
10138	Pyrene	129-00-0	2.9	U 0.70	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.3	U 1.3	3.8
10401	Dalapon	75-99-0	4.6	U 4.6	9.5
10401	2,4-DB	94-82-6	3.9	U 0.65	1.8
10401	Dicamba	1918-00-9	0.55	J 0.42	1.3
10401	Dinoseb	88-85-7	0.84	U 0.84	2.5
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U 0.84	1.8
10401	MCPA	94-74-6	530	U 80	260
10401	MCPP (Mecoprop)	93-65-2	79	U 79	260
10401	2,4,5-T	93-76-5	0.086	U 0.086	0.18
10401	2,4,5-TP	93-72-1	0.079	U 0.079	0.18

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

MCPP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold

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

Sample Description: SL-095-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163882
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9505 SDG#: DE037-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported.							
Pesticides/PCBs SW-846 8081A							
01363	Aldrin	309-00-2	0.069 U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036 U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.063 U	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.036 U	0.036	0.17		1
01363	Chlordane	57-74-9	0.84 U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.20 U	0.20	0.36		1
01363	p,p-DDE	72-55-9	0.069 U	0.069	0.36		1
01363	p,p-DDT	50-29-3	0.23 U	0.23	0.36		1
01363	Delta BHC	319-86-8	0.12 J	0.038	0.17		1
01363	Dieldrin	60-57-1	0.069 U	0.069	0.36		1
01363	Endosulfan I	959-98-8	0.046 U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069 U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.069 U	0.069	0.36		1
01363	Endrin	72-20-8	0.069 U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.069 U	0.069	0.36		1
01363	Endrin Ketone	53494-70-5	0.069 U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063 U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.036 U	0.036	0.17		1
01363	Methoxychlor	72-43-5	0.36 U	0.36	1.7		1
01363	Mirex	2385-85-5	0.069 U	0.069	0.36		1
01363	Toxaphene	8001-35-2	2.3 U	2.3	6.9		1

The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	2.1 U	2.1	6.9
10225	Aroclor 5442	12642-23-8	2.1 U	2.1	6.9
10225	Aroclor 5460	11126-42-4	37	2.1	6.9
10225	PCB-1016	12674-11-2	0.69 U	0.69	3.6
10225	PCB-1221	11104-28-2	1.1 U	1.1	3.6
10225	PCB-1232	11141-16-5	1.1 U	1.1	3.6
10225	PCB-1242	53469-21-9	1.1 U	1.1	3.6
10225	PCB-1248	12672-29-6	0.69 U	0.69	3.6
10225	PCB-1254	11097-69-1	9.2	0.69	3.6
10225	PCB-1260	11096-82-5	5.2	0.69	3.6
10225	PCB-1262	37324-23-5	0.69 U	0.69	3.6
10225	PCB-1268	11100-14-4	0.69 U	0.69	3.6

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

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

Sample Description: SL-095-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163882
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9505 SDG#: DE037-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,600	5.24	20.8		1
07914	Boron	7440-42-8	4.36 J	0.928	5.21		1
01650	Calcium	7440-70-2	6,280	6.39	20.8		1
01654	Iron	7439-89-6	21,900	4.91	20.8		1
01656	Lithium	7439-93-2	19.3	0.23	2.1		1
01657	Magnesium	7439-95-4	4,420	2.65	10.4		1
06958	Manganese	7439-96-5	314	0.0813	0.521		1
10145	Phosphorus	7723-14-0	441	0.584	10.4		1
01662	Potassium	7440-09-7	3,440	18.8	52.1		1
01667	Sodium	7440-23-5	106	38.9	104		1
07968	Strontium	7440-24-6	28.4	0.0646	0.521		1
06969	Tin	7440-31-5	1.04 U	1.04	10.4		1
06970	Titanium	7440-32-6	1,080	0.792	2.08		2
10146	Zirconium	7440-67-7	1.88 J	0.875	5.21		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.330	0.0607	0.202		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	7.12	0.0607	0.405		2
06126	Barium	7440-39-3	162	0.109	0.405		2
06127	Beryllium	7440-41-7	0.736	0.0162	0.101		2
06128	Cadmium	7440-43-9	0.278	0.0364	0.101		2
06131	Chromium	7440-47-3	27.3	0.121	0.405		2
06132	Cobalt	7440-48-4	7.66	0.0202	0.101		2
06133	Copper	7440-50-8	14.9	0.0668	0.405		2
06135	Lead	7439-92-1	10.9	0.0105	0.202		2
06138	Molybdenum	7439-98-7	1.17	0.0506	0.101		2
06139	Nickel	7440-02-0	17.1	0.101	0.405		2
06141	Selenium	7782-49-2	0.159 J	0.0405	0.405		2
06142	Silver	7440-22-4	0.0526 J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.348	0.0304	0.101		2
06148	Vanadium	7440-62-2	51.8	0.0223	0.101		2
06149	Zinc	7440-66-6	126	0.567	3.04		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.146	0.0029	0.102		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.84	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.6		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.52 J	0.21	1.1		1

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

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

Sample Description: SL-095-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163882
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9505 SDG#: DE037-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	393	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.14	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	5.0	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 05:11	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 07:05	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010 04:28	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 02:47	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 07:08	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1

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

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

Sample Description: SL-095-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-095-SA5B-SS-0.0-0.5

LLI Sample # SW 6163882
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:40 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9505 SDG#: DE037-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:28	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:52	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201A	01/05/2011 17:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201A	01/04/2011 05:56	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10364243201A	01/04/2011 01:55	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201A	01/04/2011 13:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201A	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

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

Sample Description: SL-091-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9105 SDG#: DE037-12

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

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Sample Description: SL-091-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9105 SDG#: DE037-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.73	U 0.73	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.1	J 0.73	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.6	J 0.73	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	3.4	U 0.73	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.5	J 0.73	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.73	U 0.73	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	20		1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	20		1
10138	Chrysene	218-01-9	2.8	U 0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.73	U 0.73	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	20		1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	25	U 6.5	20		1
10138	Fluoranthene	206-44-0	1.8	U 0.73	1.8		1
10138	Fluorene	86-73-7	0.73	U 0.73	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73	U 0.73	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.73	U 0.73	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.73	U 0.73	1.8		1
10138	Naphthalene	91-20-3	0.74	J 0.73	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.73	U 0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U 6.5	20		1
10138	Phenanthrene	85-01-8	1.1	J 0.73	1.8		1
10138	Pyrene	129-00-0	2.0	U 0.73	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.3	U 1.3	3.9
10401	Dalapon	75-99-0	4.8	U 4.8	9.8
10401	2,4-DB	94-82-6	0.67	U 0.67	1.8
10401	Dicamba	1918-00-9	0.44	U 0.44	1.3
10401	Dinoseb	88-85-7	0.87	U 0.87	2.6
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U 0.87	1.8
10401	MCPA	94-74-6	120	U 120	270
10401	MCP (Mecoprop)	93-65-2	230	U 230	270
10401	2,4,5-T	93-76-5	0.089	U 0.089	0.18
10401	2,4,5-TP	93-72-1	0.082	U 0.082	0.18

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

MCP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold

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



Analysis Report

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

Sample Description: SL-091-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9105 SDG#: DE037-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
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time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported.

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and MCPA.

Pesticides/PCBs		SW-846 8081A	ug/kg	U	ug/kg	ug/kg	ug/kg
01363	Aldrin	309-00-2	0.072	U	0.072	0.18	1
01363	Alpha BHC	319-84-6	0.037	U	0.037	0.18	1
01363	Beta BHC	319-85-7	0.065	U	0.065	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.037	U	0.037	0.18	1
01363	Chlordane	57-74-9	0.87	U	0.87	3.7	1
01363	p,p-DDD	72-54-8	0.072	U	0.072	0.37	1
01363	p,p-DDE	72-55-9	0.072	U	0.072	0.37	1
01363	p,p-DDT	50-29-3	0.50	U	0.50	0.50	1
01363	Delta BHC	319-86-8	0.039	U	0.039	0.18	1
01363	Dieldrin	60-57-1	0.079	U	0.079	0.37	1
01363	Endosulfan I	959-98-8	0.048	U	0.048	0.18	1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.37	1
01363	Endosulfan Sulfate	1031-07-8	0.072	U	0.072	0.37	1
01363	Endrin	72-20-8	0.53	U	0.072	0.37	1
01363	Endrin Aldehyde	7421-93-4	0.20	U	0.20	0.37	1
01363	Endrin Ketone	53494-70-5	0.072	U	0.072	0.37	1
01363	Heptachlor	76-44-8	0.065	U	0.065	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.19	U	0.19	0.19	1
01363	Methoxychlor	72-43-5	0.37	U	0.37	1.8	1
01363	Mirex	2385-85-5	0.12	U	0.12	0.37	1
01363	Toxaphene	8001-35-2	2.4	U	2.4	7.2	1

The surrogate TCX recovery in the LCS is outside the QC limits.

Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts.

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

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs		SW-846 8082	ug/kg	U	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	2.2	U	2.2	7.2	2
10225	Aroclor 5442	12642-23-8	2.2	U	2.2	7.2	2
10225	Aroclor 5460	11126-42-4	2.8	J	2.2	7.2	2
10225	PCB-1016	12674-11-2	0.72	U	0.72	3.7	2
10225	PCB-1221	11104-28-2	1.1	U	1.1	3.7	2
10225	PCB-1232	11141-16-5	1.1	U	1.1	3.7	2
10225	PCB-1242	53469-21-9	1.1	U	1.1	3.7	2
10225	PCB-1248	12672-29-6	0.72	U	0.72	3.7	2
10225	PCB-1254	11097-69-1	38	U	0.72	3.7	2

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Sample Description: SL-091-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9105 SDG#: DE037-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	PCB-1260	11096-82-5	0.72 U	0.72	3.7		2
10225	PCB-1262	37324-23-5	0.72 U	0.72	3.7		2
10225	PCB-1268	11100-14-4	0.72 U	0.72	3.7		2
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,900	5.26	20.9		1
07914	Boron	7440-42-8	7.01	0.931	5.23		1
01650	Calcium	7440-70-2	15,700	6.41	20.9		1
01654	Iron	7439-89-6	29,400	9.86	41.9		2
01656	Lithium	7439-93-2	31.8	0.23	2.1		1
01657	Magnesium	7439-95-4	7,030	2.66	10.5		1
06958	Manganese	7439-96-5	350	0.0816	0.523		1
10145	Phosphorus	7723-14-0	518	0.586	10.5		1
01662	Potassium	7440-09-7	4,880	18.8	52.3		1
01667	Sodium	7440-23-5	204	39.0	105		1
07968	Strontium	7440-24-6	43.1	0.0649	0.523		1
06969	Tin	7440-31-5	2.86 J	1.05	10.5		1
06970	Titanium	7440-32-6	1,560	0.795	2.09		2
10146	Zirconium	7440-67-7	3.18 J	0.879	5.23		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.437	0.0634	0.211		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	10.8	0.0634	0.423		2
06126	Barium	7440-39-3	175	0.114	0.423		2
06127	Beryllium	7440-41-7	1.01	0.0169	0.106		2
06128	Cadmium	7440-43-9	0.271	0.0380	0.106		2
06131	Chromium	7440-47-3	50.2	0.127	0.423		2
06132	Cobalt	7440-48-4	12.3	0.0211	0.106		2
06133	Copper	7440-50-8	19.2	0.0697	0.423		2
06135	Lead	7439-92-1	15.2	0.0110	0.211		2
06138	Molybdenum	7439-98-7	1.31	0.0528	0.106		2
06139	Nickel	7440-02-0	25.9	0.106	0.423		2
06141	Selenium	7782-49-2	0.334 J	0.0423	0.423		2
06142	Silver	7440-22-4	0.0585 J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.531	0.0317	0.106		2
06148	Vanadium	7440-62-2	93.5	0.0232	0.106		2
06149	Zinc	7440-66-6	182	0.592	3.17		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0218 J	0.0030	0.105		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0	0.87	1.1		1

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Analysis Report

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Sample Description: SL-091-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

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Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9105 SDG#: DE037-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	ug/kg	ug/kg	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.47 J	mg/kg	mg/kg	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	398	mV	mV	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	8.37	Std. Units	Std. Units	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	8.1	%	%	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 05:36	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 07:39	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010 04:56	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 03:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 07:26	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1

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Sample Description: SL-091-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

CDM Federal Programs Corp.
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Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9105 SDG#: DE037-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/22/2010 03:32	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:32	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 20:56	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:52	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201B	01/05/2011 17:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201B	01/04/2011 06:20	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10364243201A	01/04/2011 02:11	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201B	01/04/2011 14:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201B	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1

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Analysis Report

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Sample Description: SL-091-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-091-SA5B-SS-0.0-0.5

LLI Sample # SW 6163883
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:10 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S9105 SDG#: DE037-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

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

Sample Description: SL-003-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.7 U	6.7	8.0		0.93
06192	Benzene	71-43-2	0.10 U	0.10	4.0		0.93
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0		0.93
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0		0.93
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0		0.93
06192	Bromoform	75-25-2	0.40 U	0.40	4.0		0.93
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0		0.93
06192	2-Butanone	78-93-3	1.2 U	1.2	8.0		0.93
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0		0.93
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0		0.93
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0		0.93
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0		0.93
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0		0.93
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0		0.93
06192	Chloroform	67-66-3	0.13 J	0.12	4.0		0.93
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0		0.93
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0		0.93
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0		0.93
06192	Chlorotrifluoroethene	79-38-9	0.50 U	0.50	5.0		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70 U	0.70	4.0		0.93
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0		0.93
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0		0.93
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0		0.93
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.0		0.93
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0		0.93
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0		0.93
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0		0.93
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0		0.93
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0		0.93
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0		0.93
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0		0.93
06192	Freon 113	76-13-1	0.11 U	0.11	4.0		0.93
06192	Freon 133a	75-88-7	0.50 U	0.50	5.0		0.93
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0		0.93
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.0		0.93
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0		0.93
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	8.0		0.93
06192	Methylene Chloride	75-09-2	2.4 J	0.24	4.0		0.93
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0		0.93

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Sample Description: SL-003-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B							
06192	Styrene	100-42-5	0.10 U	0.10	4.0		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0		0.93
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0		0.93
06192	Toluene	108-88-3	0.08 U	0.08	4.0		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0		0.93
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0		0.93
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.0		0.93
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0		0.93
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0		0.93
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0		0.93
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	4.9 U	4.9	15		22.69
GC/MS Semivolatiles EPA 1625C							
11622	N-Nitrosodimethylamine	62-75-9	93.9	35.9	71.8		2
GC/MS Semivolatiles SW-846 8270C							
04688	Aniline	62-53-3	180	U 180	540		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U 180	540		1
04688	Benzyl alcohol	100-51-6	180	U 180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180		1
04688	4-Chloroaniline	106-47-8	72	U 72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U 720	2,200		1

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 SSFL Area IV Collocated Soil Sampling
 SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

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S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U 18	360		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	72	U 72	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U 0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.3	J 0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.8	U 0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.9	U 0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.90	J 0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	J 0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	19		1
10138	Chrysene	218-01-9	4.0	U 0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U 0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	19		1
10138	Fluoranthene	206-44-0	1.7	J 0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U 0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72	U 0.72	1.8		1

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 SSFL Area IV Collocated Soil Sampling
 SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.72 U	0.72	1.8	ug/kg	1
10138	2-Methylnaphthalene	91-57-6	0.72 U	0.72	1.8	ug/kg	1
10138	Naphthalene	91-20-3	0.72 U	0.72	1.8	ug/kg	1
10138	N-Nitrosodimethylamine	62-75-9	0.72 U	0.72	1.8	ug/kg	1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	19	ug/kg	1
10138	Phenanthrene	85-01-8	0.72 U	0.72	1.8	ug/kg	1
10138	Pyrene	129-00-0	2.4 U	0.72	1.8	ug/kg	1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1.2	mg/kg	27.29
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	81 U	81	160	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54 U	54	160	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	54 U	54	160	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	54 U	54	160	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	54 U	54	160	1000000	1
10132	HMX	2691-41-0	130 U	130	400	1000000	1
10132	Nitrobenzene	98-95-3	54 U	54	160	1000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200	1000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1000000	1
10132	3-Nitrotoluene	99-08-1	130 U	130	160	1000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,200	1000000	1
10132	RDX	121-82-4	67 U	67	160	1000000	1
10132	Tetryl	479-45-8	82 U	82	160	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	54 U	54	160	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54 U	54	160	1000000	1

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Sample Description: SL-003-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
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S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics								
	SW-846 8315A		ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	650	U	650	1,600		1
Perchlorate								
	SW-846 6850 1/2007		ug/kg		ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.3	U	2.3	5.4		1
Pesticides/PCBs								
	SW-846 8082		ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1	U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36	U	0.36	1.8		1
10225	PCB-1221	11104-28-2	0.54	U	0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56	U	0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54	U	0.54	1.8		1
10225	PCB-1248	12672-29-6	0.36	U	0.36	1.8		1
10225	PCB-1254	11097-69-1	1.3	J	0.36	1.8		1
10225	PCB-1260	11096-82-5	0.61	J	0.36	1.8		1
10225	PCB-1262	37324-23-5	0.36	U	0.36	1.8		1
10225	PCB-1268	11100-14-4	0.36	U	0.36	1.8		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Miscellaneous								
	SW-846 8015B		ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U	110	540		1
10501	Isopropanol	67-63-0	110	U	110	540		1
10501	Methanol	67-56-1	110	J	110	540		1
Terphenyls								
	SW-846 8015B		mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.8		1
Metals								
	SW-846 6010B		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,600		5.42	21.6		1
07914	Boron	7440-42-8	4.64	J	0.959	5.39		1
01650	Calcium	7440-70-2	3,440		6.61	21.6		1
01654	Iron	7439-89-6	20,400		5.08	21.6		1
01656	Lithium	7439-93-2	19.3		0.24	2.2		1
01657	Magnesium	7439-95-4	3,910		2.74	10.8		1
06958	Manganese	7439-96-5	303		0.0841	0.539		1
10145	Phosphorus	7723-14-0	349		0.603	10.8		1
01662	Potassium	7440-09-7	2,660		19.4	53.9		1
01667	Sodium	7440-23-5	181		40.2	108		1
07968	Strontium	7440-24-6	18.7		0.0668	0.539		1
06969	Tin	7440-31-5	2.50	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,150		0.819	2.16		2
10146	Zirconium	7440-67-7	1.44	J	0.905	5.39		1

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

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

Sample Description: SL-003-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
SW-846 6020			mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.174 J	0.0622	0.207		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.50	0.0622	0.414		2
06126	Barium	7440-39-3	119	0.112	0.414		2
06127	Beryllium	7440-41-7	0.612	0.0166	0.104		2
06128	Cadmium	7440-43-9	0.0875 J	0.0373	0.104		2
06131	Chromium	7440-47-3	21.3	0.124	0.414		2
06132	Cobalt	7440-48-4	7.07	0.0207	0.104		2
06133	Copper	7440-50-8	10.7	0.0684	0.414		2
06135	Lead	7439-92-1	6.10	0.0108	0.207		2
06138	Molybdenum	7439-98-7	0.780	0.0518	0.104		2
06139	Nickel	7440-02-0	12.8	0.104	0.414		2
06141	Selenium	7782-49-2	0.177 J	0.0414	0.414		2
06142	Silver	7440-22-4	0.0366 J	0.0124	0.104		2
06145	Thallium	7440-28-0	0.350	0.0311	0.104		2
06148	Vanadium	7440-62-2	45.3	0.0228	0.104		2
06149	Zinc	7440-66-6	89.1	0.580	3.11		2
SW-846 7471A			mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0131 J	0.0030	0.105		1
Wet Chemistry							
EPA 300.0			mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.5	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.6	0.86	1.6		1
EPA 314.0			ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.3		1
SW-846 7199			mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.82 J	0.22	1.1		1
SW-846 9012B			mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1
ASTM D1498			mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	391	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified			Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.70	0.0100	0.0100		1
Wet Chemistry							
EPA 160.3 modified			%	%	%	%	

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Sample Description: SL-003-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0345 SDG#: DE037-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	7.2	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-003-SA5C-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 07:40	Laura M Krieger	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 06:04	Sara E Johnson	22.69
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:28	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:44	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:44	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 17:24	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 14:13	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 06:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 08:12	Linda M Hartenstine	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 20:57	Marie D John	27.29
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:49	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 07:26	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 00:15	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	110040016A	01/05/2011 15:30	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 07:45	Lindsey K Lafferty	1

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Sample Description: SL-003-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0345 SDG#: DE037-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	110040016A	01/05/2011 09:45	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 22:52	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 14:46	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:35	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 21:00	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:54	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1

*—This limit was used in the evaluation of the final result
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Sample Description: SL-003-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-003-SA5C-SB-4.0-5.0

LLI Sample # SW 6163884
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:37 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0345 SDG#: DE037-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201B	01/05/2011 18:04	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201B	01/05/2011 18:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201B	01/04/2011 07:32	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 02:19	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:15	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201B	01/04/2011 14:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201B	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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

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

Sample Description: SL-001-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9 U	6.9	8.3		0.96
06192	Benzene	71-43-2	0.10 U	0.10	4.1		0.96
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1		0.96
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1		0.96
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1		0.96
06192	Bromoform	75-25-2	0.41 U	0.41	4.1		0.96
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1		0.96
06192	2-Butanone	78-93-3	1.3 U	1.3	8.3		0.96
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1		0.96
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1		0.96
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.1		0.96
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1		0.96
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1		0.96
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1		0.96
06192	Chloroform	67-66-3	0.12 U	0.12	4.1		0.96
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1		0.96
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1		0.96
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1		0.96
06192	Chlorotrifluoroethene	79-38-9	0.52 U	0.52	5.2		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72 U	0.72	4.1		0.96
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.1		0.96
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.1		0.96
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.1		0.96
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1		0.96
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1		0.96
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.1		0.96
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.1		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1		0.96
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.1		0.96
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1		0.96
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.1		0.96
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.1		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.1		0.96
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1		0.96
06192	Freon 113	76-13-1	0.11 U	0.11	4.1		0.96
06192	Freon 133a	75-88-7	0.52 U	0.52	5.2		0.96
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1		0.96
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.3		0.96
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1		0.96
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.1		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.3		0.96
06192	Methylene Chloride	75-09-2	3.0 J	0.25	4.1		0.96
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1		0.96

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Sample Description: SL-001-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	4.1		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1		0.96
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.1		0.96
06192	Toluene	108-88-3	0.08 U	0.08	4.1		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.1		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.1		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1		0.96
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.1		0.96
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1		0.96
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.1		0.96
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.1		0.96
06192	o-Xylene	95-47-6	0.18 U	0.18	4.1		0.96
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.6 U	4.6	14		21.59
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	97.1	17.9	35.7		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	540		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U 180	540		1
04688	Benzyl alcohol	100-51-6	180	U 180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180		1
04688	4-Chloroaniline	106-47-8	71	U 71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540		1
04688	2,4-Dinitrophenol	51-28-5	710	U 710	2,100		1

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Sample Description: SL-001-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	18	U 18	360		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U 71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	71	U 71	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U 0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U 0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U 0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U 0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U 0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U 0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U 6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U 6.4	19		1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U 0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U 6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U 6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U 0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U 0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U 0.71	1.8		1

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Sample Description: SL-001-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

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 Suite 210
 Chantilly VA 20151

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.71 U	0.71	1.8	ug/kg	1
10138	2-Methylnaphthalene	91-57-6	0.71 U	0.71	1.8	ug/kg	1
10138	Naphthalene	91-20-3	0.71 U	0.71	1.8	ug/kg	1
10138	N-Nitrosodimethylamine	62-75-9	0.71 U	0.71	1.8	ug/kg	1
10138	Di-n-octylphthalate	117-84-0	6.4 U	6.4	19	ug/kg	1
10138	Phenanthrene	85-01-8	0.71 U	0.71	1.8	ug/kg	1
10138	Pyrene	129-00-0	0.71 U	0.71	1.8	ug/kg	1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1	mg/kg	23.06
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	80 U	80	160	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54 U	54	160	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	54 U	54	160	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	54 U	54	160	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	54 U	54	160	1000000	1
10132	HMX	2691-41-0	130 U	130	400	1000000	1
10132	Nitrobenzene	98-95-3	54 U	54	160	1000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200	1000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1000000	1
10132	3-Nitrotoluene	99-08-1	130 U	130	160	1000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,200	1000000	1
10132	RDX	121-82-4	67 U	67	160	1000000	1
10132	Tetryl	479-45-8	82 U	82	160	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	54 U	54	160	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	54 U	54	160	1000000	1

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LLI Sample # SW 6163885
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CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics								
		SW-846 8315A	ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by	8315A 50-00-0	640 U		640	1,600		1
Pesticides/PCBs								
		SW-846 8082	ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U		1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1 U		1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1 U		1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35 U		0.35	1.8		1
10225	PCB-1221	11104-28-2	0.54 U		0.54	1.8		1
10225	PCB-1232	11141-16-5	0.56 U		0.56	1.8		1
10225	PCB-1242	53469-21-9	0.54 U		0.54	1.8		1
10225	PCB-1248	12672-29-6	0.35 U		0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35 U		0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35 U		0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35 U		0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35 U		0.35	1.8		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Miscellaneous								
		SW-846 8015B	ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U		110	540		1
10501	Isopropanol	67-63-0	110 U		110	540		1
10501	Methanol	67-56-1	110 U		110	540		1
Terphenyls								
		SW-846 8015B	mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6 U		1.6	3.8		1
10318	o-Terphenyl	84-15-1	1.6 U		1.6	3.8		1
10318	p-Terphenyl	92-94-4	1.6 U		1.6	3.8		1
Metals								
		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,100		5.34	21.2		1
07914	Boron	7440-42-8	2.87 J		0.944	5.31		1
01650	Calcium	7440-70-2	2,820		6.51	21.2		1
01654	Iron	7439-89-6	18,400		5.00	21.2		1
01656	Lithium	7439-93-2	20.9		0.23	2.1		1
01657	Magnesium	7439-95-4	3,670		2.70	10.6		1
06958	Manganese	7439-96-5	255		0.0828	0.531		1
10145	Phosphorus	7723-14-0	306		0.594	10.6		1
01662	Potassium	7440-09-7	2,360		19.1	53.1		1
01667	Sodium	7440-23-5	105 J		39.6	106		1
07968	Strontium	7440-24-6	10.9		0.0658	0.531		1
06969	Tin	7440-31-5	2.33 J		1.06	10.6		1
06970	Titanium	7440-32-6	1,050		0.807	2.12		2
10146	Zirconium	7440-67-7	0.891 U		0.891	5.31		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0994 J		0.0637	0.212		2

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 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	7.96	0.0637	0.424		2
06126	Barium	7440-39-3	89.2	0.115	0.424		2
06127	Beryllium	7440-41-7	0.715	0.0170	0.106		2
06128	Cadmium	7440-43-9	0.0626 J	0.0382	0.106		2
06131	Chromium	7440-47-3	18.8	0.127	0.424		2
06132	Cobalt	7440-48-4	5.88	0.0212	0.106		2
06133	Copper	7440-50-8	6.80	0.0700	0.424		2
06135	Lead	7439-92-1	5.49	0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.760	0.0531	0.106		2
06139	Nickel	7440-02-0	10.5	0.106	0.424		2
06141	Selenium	7782-49-2	0.153 J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0190 J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.418	0.0318	0.106		2
06148	Vanadium	7440-62-2	38.1	0.0233	0.106		2
06149	Zinc	7440-66-6	79.0	0.594	3.18		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.105		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.4	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.2 J	0.86	1.6		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	32.2		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.79 J	0.21	1.1		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	412	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.26	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	6.7	0.50	0.50		1

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Sample Description: SL-001-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
LLI Group # 1225274
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Project Name: SSFL Area IV Collocated Soil Sampling

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S0145 SDG#: DE037-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
	EPA 160.3 modified		%	%	%	%	
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-001-SA5C-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103482AA	12/15/2010 08:03	Laura M Krieger	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 06:24	Sara E Johnson	21.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:33	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:44	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:44	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 17:30	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/05/2011 14:30	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 06:27	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 08:46	Linda M Hartenstine	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 21:33	Marie D John	23.06
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:48	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 08:08	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 00:24	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 08:03	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1

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

Sample Description: SL-001-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0145 SDG#: DE037-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 23:06	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 10:17	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:39	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 21:11	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:56	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201B	01/05/2011 18:18	Ashley M Adams	1

*—This limit was used in the evaluation of the final result
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Sample Description: SL-001-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-4.0-5.0

LLI Sample # SW 6163885
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:08 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0145 SDG#: DE037-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201B	01/05/2011 18:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201B	01/04/2011 07:56	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 02:35	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:16	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201B	01/04/2011 14:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201B	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	35	6.8	8.2		0.85
06192	Benzene	71-43-2	0.10 U	0.10	4.1		0.85
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1		0.85
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1		0.85
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1		0.85
06192	Bromoform	75-25-2	0.41 U	0.41	4.1		0.85
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1		0.85
06192	2-Butanone	78-93-3	5.6 J	1.2	8.2		0.85
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1		0.85
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1		0.85
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.1		0.85
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1		0.85
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1		0.85
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1		0.85
06192	Chloroform	67-66-3	0.12 U	0.12	4.1		0.85
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1		0.85
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1		0.85
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1		0.85
06192	Chlorotrifluoroethene	79-38-9	0.51 U	0.51	5.1		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71 U	0.71	4.1		0.85
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.1		0.85
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.1		0.85
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.1		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.1		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1		0.85
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1		0.85
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.1		0.85
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.1		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1		0.85
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.1		0.85
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1		0.85
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.1		0.85
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.1		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.1		0.85
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1		0.85
06192	Freon 113	76-13-1	0.11 U	0.11	4.1		0.85
06192	Freon 133a	75-88-7	0.51 U	0.51	5.1		0.85
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1		0.85
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.2		0.85
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1		0.85
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.1		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.2		0.85
06192	Methylene Chloride	75-09-2	1.5 J	0.24	4.1		0.85
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1		0.85

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Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B							
06192	Styrene	100-42-5	0.10 U	0.10	4.1		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.1		0.85
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.1		0.85
06192	Toluene	108-88-3	0.11 J	0.08	4.1		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.1		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.1		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.1		0.85
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.1		0.85
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1		0.85
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.1		0.85
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.1		0.85
06192	o-Xylene	95-47-6	0.17 U	0.17	4.1		0.85
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16		22.05
GC/MS Semivolatiles EPA 1625C							
11622	N-Nitrosodimethylamine	62-75-9	83.9	40.2	80.3		2
GC/MS Semivolatiles SW-846 8270C							
04688	Aniline	62-53-3	200	U 200	600		1
04688	Benzidine	92-87-5	1,400	U 1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U 200	600		1
04688	Benzyl alcohol	100-51-6	200	U 200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U 20	200		1
04688	Carbazole	86-74-8	20	U 20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U 40	200		1
04688	4-Chloroaniline	106-47-8	80	U 80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U 20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U 20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U 20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U 20	200		1
04688	2-Chlorophenol	95-57-8	20	U 20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U 40	200		1
04688	Dibenzofuran	132-64-9	20	U 20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U 20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U 20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U 20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U 20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U 40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U 40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U 200	600		1
04688	2,4-Dinitrophenol	51-28-5	800	U 800	2,400		1

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

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

Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U 40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U 20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U 20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	U 20	400		1
04688	Hexachlorobenzene	118-74-1	20	U 20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U 80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U 200	600		1
04688	Hexachloroethane	67-72-1	20	U 20	200		1
04688	Isophorone	78-59-1	20	U 20	200		1
04688	2-Methylphenol	95-48-7	40	U 40	200		1
04688	4-Methylphenol	106-44-5	40	U 40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U 20	200		1
04688	3-Nitroaniline	99-09-2	40	U 40	200		1
04688	4-Nitroaniline	100-01-6	80	U 80	200		1
04688	Nitrobenzene	98-95-3	20	U 20	200		1
04688	2-Nitrophenol	88-75-5	20	U 20	200		1
04688	4-Nitrophenol	100-02-7	200	U 200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U 20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U 20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U 200	600		1
04688	Phenol	108-95-2	20	U 20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U 20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U 40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U 40	200		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U 0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U 0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U 0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U 0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U 0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U 0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U 0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U 0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U 7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U 7.2	22		1
10138	Chrysene	218-01-9	0.40	U 0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U 0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U 7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U 7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U 0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U 0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U 0.80	2.0		1

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Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.80 U	0.80	2.0	ug/kg	1
10138	2-Methylnaphthalene	91-57-6	0.80 U	0.80	2.0	ug/kg	1
10138	Naphthalene	91-20-3	0.80 U	0.80	2.0	ug/kg	1
10138	N-Nitrosodimethylamine	62-75-9	0.80 U	0.80	2.0	ug/kg	1
10138	Di-n-octylphthalate	117-84-0	7.2 U	7.2	22	ug/kg	1
10138	Phenanthrene	85-01-8	0.80 U	0.80	2.0	ug/kg	1
10138	Pyrene	129-00-0	0.80 U	0.80	2.0	ug/kg	1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1.1	mg/kg	21.93
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	90 U	90	180	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60 U	60	180	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120 U	120	360	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120 U	120	360	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	60 U	60	180	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	60 U	60	180	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	60 U	60	180	1000000	1
10132	HMX	2691-41-0	150 U	150	450	1000000	1
10132	Nitrobenzene	98-95-3	60 U	60	180	1000000	1
10132	Nitroglycerin	55-63-0	1,200 U	1,200	3,600	1000000	1
10132	2-Nitrotoluene	88-72-2	120 U	120	180	1000000	1
10132	3-Nitrotoluene	99-08-1	150 U	150	180	1000000	1
10132	4-Nitrotoluene	99-99-0	120 U	120	180	1000000	1
10132	PETN	78-11-5	1,200 U	1,200	3,600	1000000	1
10132	RDX	121-82-4	75 U	75	180	1000000	1
10132	Tetryl	479-45-8	92 U	92	180	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	60 U	60	180	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60 U	60	180	1000000	1

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 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
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S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics								
		SW-846 8315A	ug/kg		ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	4,000		720	1,800		1
Pesticides/PCBs								
		SW-846 8082	ug/kg		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U	1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U	0.40	2.0		1
10225	PCB-1221	11104-28-2	0.60	U	0.60	2.0		1
10225	PCB-1232	11141-16-5	0.63	U	0.63	2.0		1
10225	PCB-1242	53469-21-9	0.60	U	0.60	2.0		1
10225	PCB-1248	12672-29-6	0.40	U	0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U	0.40	2.0		1
10225	PCB-1260	11096-82-5	0.40	U	0.40	2.0		1
10225	PCB-1262	37324-23-5	0.40	U	0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U	0.40	2.0		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
GC Miscellaneous								
		SW-846 8015B	ug/kg		ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U	120	600		1
10501	Isopropanol	67-63-0	120	U	120	600		1
10501	Methanol	67-56-1	120	U	120	600		1
Terphenyls								
		SW-846 8015B	mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals								
		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	30,800		6.00	23.9		1
07914	Boron	7440-42-8	7.30		1.06	5.96		1
01650	Calcium	7440-70-2	19,000		7.31	23.9		1
01654	Iron	7439-89-6	34,500		11.2	47.7		2
01656	Lithium	7439-93-2	25.3		0.26	2.4		1
01657	Magnesium	7439-95-4	7,280		3.03	11.9		1
06958	Manganese	7439-96-5	398		0.0930	0.596		1
10145	Phosphorus	7723-14-0	413		0.668	11.9		1
01662	Potassium	7440-09-7	4,570		21.5	59.6		1
01667	Sodium	7440-23-5	254		44.5	119		1
07968	Strontium	7440-24-6	44.3		0.0740	0.596		1
06969	Tin	7440-31-5	2.80	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,470		0.907	2.39		2
10146	Zirconium	7440-67-7	4.76	J	1.00	5.96		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.559		0.0723	0.241		2

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Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 16:16 by BH

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S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	12.2	0.0723	0.482		2
06126	Barium	7440-39-3	203	0.130	0.482		2
06127	Beryllium	7440-41-7	1.42	0.0193	0.120		2
06128	Cadmium	7440-43-9	0.212	0.0434	0.120		2
06131	Chromium	7440-47-3	55.4	0.145	0.482		2
06132	Cobalt	7440-48-4	13.7	0.0241	0.120		2
06133	Copper	7440-50-8	21.8	0.0795	0.482		2
06135	Lead	7439-92-1	13.0	0.0125	0.241		2
06138	Molybdenum	7439-98-7	1.12	0.0602	0.120		2
06139	Nickel	7440-02-0	28.4	0.120	0.482		2
06141	Selenium	7782-49-2	0.190 J	0.0482	0.482		2
06142	Silver	7440-22-4	0.0765 J	0.0145	0.120		2
06145	Thallium	7440-28-0	0.474	0.0361	0.120		2
06148	Vanadium	7440-62-2	101	0.0265	0.120		2
06149	Zinc	7440-66-6	115	0.675	3.61		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0073 J	0.0033	0.116		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.7	0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.96 U	0.96	1.8		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8 U	10.8	36.1		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37 J	0.24	1.2		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.22 U	0.22	0.61		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	433	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.46	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	17.0	0.50	0.50		1

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Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0191 SDG#: DE037-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
	EPA 160.3 modified		%	%	%	%	
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-001-SA5C-SB-9.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 19:24	Laura M Krieger	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103493AA	12/16/2010 06:43	Sara E Johnson	22.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:38	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:44	Christopher M Klumpp	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034823296	12/14/2010 17:44	Christopher M Klumpp	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034823296	12/14/2010 17:35	Christopher M Klumpp	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10354SLC026	01/06/2011 10:00	Timothy J Trees	2
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 06:52	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 09:19	Linda M Hartenstine	1
11630	NDMA Soil Microwave	SW-846 3546	1	10354SLC026	12/20/2010 14:45	Olivia I Santiago	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34A	12/15/2010 22:09	Marie D John	21.93
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034823296	12/14/2010 17:46	Christopher M Klumpp	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 08:51	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 00:34	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 08:22	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1

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 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
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S0191 SDG#: DE037-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 23:21	Dustin A Underkoffler	1
10318	Terphenyls in Soils	SW-846 8015B	1	103550026A	12/23/2010 11:02	Heather E Williams	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550026A	12/22/2010 07:00	Kerrie A Freeburn	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/22/2010 03:42	Tara L Snyder	2
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/22/2010 03:42	Tara L Snyder	2
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010 21:15	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010 18:31	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010 10:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010 18:31	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010 18:31	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010 18:31	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010 06:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010 23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201B	01/05/2011 18:32	Ashley M Adams	1

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Sample Description: SL-001-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-001-SA5C-SB-9.0-10.0

LLI Sample # SW 6163886
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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S0191 SDG#: DE037-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11004004201B	01/05/2011 18:32	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201B	01/04/2011 08:20	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 03:07	Venia B McFadden	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:22	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201B	01/04/2011 14:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201B	01/01/2011 10:45	Erik J Frederiksen	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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

Sample Description: SED-032-SIV-SD-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S3205 SDG#: DE037-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	43	J 19	190		1
04688	Aniline	62-53-3	190	U 190	570		1
04688	Anthracene	120-12-7	37	J 19	190		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	400	U 19	190		1
04688	Benzo(a)pyrene	50-32-8	650	U 19	190		1
04688	Benzo(b)fluoranthene	205-99-2	680	U 19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	500	U 19	190		1
04688	Benzo(k)fluoranthene	207-08-9	280	U 19	190		1
04688	Benzoic acid	65-85-0	190	U 190	570		1
04688	Benzyl alcohol	100-51-6	190	U 190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	24	J 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	76	U 76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Chrysene	218-01-9	490	U 19	190		1
04688	Dibenz(a,h)anthracene	53-70-3	120	J 19	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U 760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Fluoranthene	206-44-0	420	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	420	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1

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Sample Description: SED-032-SIV-SD-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S3205 SDG#: DE037-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	76	U 76	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U 190	570		1
04688	Phenanthrene	85-01-8	110	J 19	190		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	Pyrene	129-00-0	540	19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1

GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg
10138	Acenaphthylene	208-96-8	0.49	J 0.38	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21	1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21	1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21	1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	30	6.9	21	1
10138	Fluorene	86-73-7	2.0	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	1.9	J 0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	2.4	0.76	1.9	1
10138	Naphthalene	91-20-3	6.3	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U 0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.9	U 6.9	21	1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.4	U 1.4	4.1
10401	Dalapon	75-99-0	5.0	U 5.0	10
10401	2,4-DB	94-82-6	30	U 30	30
10401	Dicamba	1918-00-9	0.46	U 0.46	1.4
10401	Dinoseb	88-85-7	0.92	U 0.92	2.7
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U 0.92	1.9
10401	MCPA	94-74-6	1,100	U 1,100	1,100
10401	MCPP (Mecoprop)	93-65-2	250	U 250	290
10401	2,4,5-T	93-76-5	0.094	U 0.094	0.19
10401	2,4,5-TP	93-72-1	0.086	U 0.086	0.19

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

MCPP and 2,4-DB are detected in the method blank at a concentration of 160 ug/l and 1.2 ug/l respectively. The sample was reextracted outside the sample hold

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Sample Description: SED-032-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S3205 SDG#: DE037-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
<p>time. The method blank in the reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported.</p> <p>When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and 2,4-DB.</p> <p>Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.</p>							
Perchlorate							
	SW-846 6850	1/2007	ug/kg	ug/kg	ug/kg	ug/kg	
06557	6a Perchlorate EPA 6850	14797-73-0	2.4 U	2.4	5.7		1
Pesticides/PCBs							
	SW-846 8081A		ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.079 U	0.079	0.19		1
01363	Alpha BHC	319-84-6	0.039 U	0.039	0.19		1
01363	Beta BHC	319-85-7	0.35 U	0.069	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039 U	0.039	0.19		1
01363	Chlordane	57-74-9	5.0 U	5.0	5.0		1
01363	p,p-DDD	72-54-8	2.4 U	2.4	2.4		1
01363	p,p-DDE	72-55-9	1.3 U	1.3	1.3		1
01363	p,p-DDT	50-29-3	2.4 U	2.4	2.4		1
01363	Delta BHC	319-86-8	0.19 U	0.041	0.19		1
01363	Dieldrin	60-57-1	0.47 U	0.47	0.47		1
01363	Endosulfan I	959-98-8	0.11 U	0.11	0.19		1
01363	Endosulfan II	33213-65-9	0.32 U	0.32	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.76 U	0.76	0.76		1
01363	Endrin	72-20-8	0.076 U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.62 U	0.62	0.62		1
01363	Endrin Ketone	53494-70-5	0.076 U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.084 U	0.084	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.33 U	0.33	0.33		1
01363	Methoxychlor	72-43-5	0.39 U	0.39	1.9		1
01363	Mirex	2385-85-5	0.076 U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5 U	2.5	7.6		1
<p>The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.</p> <p>Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.</p>							
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	2.3 U	2.3	7.6		2
10225	Aroclor 5442	12642-23-8	2.3 U	2.3	7.6		2
10225	Aroclor 5460	11126-42-4	8.5 U	2.3	7.6		2

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Sample Description: SED-032-SIV-SD-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
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 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

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Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S3205 SDG#: DE037-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	PCB-1016	12674-11-2	0.76 U	0.76	3.9		2
10225	PCB-1221	11104-28-2	1.1 U	1.1	3.9		2
10225	PCB-1232	11141-16-5	1.2 U	1.2	3.9		2
10225	PCB-1242	53469-21-9	1.1 U	1.1	3.9		2
10225	PCB-1248	12672-29-6	0.76 U	0.76	3.9		2
10225	PCB-1254	11097-69-1	18	0.76	3.9		2
10225	PCB-1260	11096-82-5	9.5	0.76	3.9		2
10225	PCB-1262	37324-23-5	0.76 U	0.76	3.9		2
10225	PCB-1268	11100-14-4	0.76 U	0.76	3.9		2

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	10,300	5.64	22.4	1
07914	Boron	7440-42-8	4.97 J	0.998	5.61	1
01650	Calcium	7440-70-2	3,360	6.88	22.4	1
01654	Iron	7439-89-6	17,800	5.28	22.4	1
01656	Lithium	7439-93-2	19.4	0.25	2.2	1
01657	Magnesium	7439-95-4	4,130	2.85	11.2	1
06958	Manganese	7439-96-5	254	0.0875	0.561	1
10145	Phosphorus	7723-14-0	386	0.628	11.2	1
01662	Potassium	7440-09-7	2,790	20.2	56.1	1
01667	Sodium	7440-23-5	78.8 J	41.8	112	1
07968	Strontium	7440-24-6	18.3	0.0695	0.561	1
06969	Tin	7440-31-5	2.66 J	1.12	11.2	1
06970	Titanium	7440-32-6	1,030	0.853	2.24	2
10146	Zirconium	7440-67-7	1.22 J	0.942	5.61	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg
06124	Antimony	7440-36-0	0.192 J	0.0673	0.224	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.28	0.0673	0.449	2
06126	Barium	7440-39-3	112	0.121	0.449	2
06127	Beryllium	7440-41-7	0.616	0.0179	0.112	2
06128	Cadmium	7440-43-9	0.249	0.0404	0.112	2
06131	Chromium	7440-47-3	25.4	0.135	0.449	2
06132	Cobalt	7440-48-4	6.30	0.0224	0.112	2
06133	Copper	7440-50-8	13.1	0.0740	0.449	2
06135	Lead	7439-92-1	25.0	0.0292	0.561	5
06138	Molybdenum	7439-98-7	0.707	0.0561	0.112	2
06139	Nickel	7440-02-0	17.6	0.112	0.449	2
06141	Selenium	7782-49-2	0.168 J	0.0449	0.449	2
06142	Silver	7440-22-4	1.39	0.0135	0.112	2
06145	Thallium	7440-28-0	0.298	0.0337	0.112	2
06148	Vanadium	7440-62-2	42.8	0.0247	0.112	2
06149	Zinc	7440-66-6	109	0.628	3.37	2

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Sample Description: SED-032-SIV-SD-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
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Project Name: SSFL Area IV Collocated Soil Sampling

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S3205 SDG#: DE037-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
00159	Mercury	SW-846 7471A 7439-97-6	0.0148 J	mg/kg 0.0032	mg/kg 0.111	mg/kg	1
Wet Chemistry							
07332	11a Anions by 300.0 - Fluoride	EPA 300.0 16984-48-8	1.7	mg/kg 0.92	mg/kg 1.1	mg/kg	1
10147	7a Perchlorate EPA 314.0	EPA 314.0 14797-73-0	10.3 U	ug/kg 10.3	ug/kg 34.3	ug/kg	1
05892	3a Cr VI by EPA 7199	SW-846 7199 18540-29-9	0.23 U	mg/kg 0.23	mg/kg 1.1	mg/kg	1
01821	Oxidation Reduction Potential	ASTM D1498 n.a.	435	mV 10.0	mV 10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
00394	22a pH by 9045C	SW-846 9045C modified n.a.	8.48	Std. Units 0.0100	Std. Units 0.0100	Std. Units	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified n.a.	12.6	% 0.50	% 0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 07:17	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 09:52	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010 05:24	John W Perkins	1

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Sample Description: SED-032-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
LLI Group # 1225274
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S3205 SDG#: DE037-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06557	6a Perchlorate EPA 6850	SW-846 6850	1/2007	1 103490017A	12/20/2010 18:21	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A		1 103550006A	01/06/2011 03:15	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082		1 103510032A	12/23/2010 08:41	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B		1 103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B		1 103510032A	12/20/2010 07:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A		1 103510026A	12/20/2010 01:40	Roman Kuropatkin	1
06568	Perchlorate Soil Prep	SW-846 6850	1/2007	1 103490017A	12/16/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
07914	Boron	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
01650	Calcium	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
01654	Iron	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
01656	Lithium	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
01657	Magnesium	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
06958	Manganese	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
10145	Phosphorus	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
01662	Potassium	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
01667	Sodium	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
07968	Strontium	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
06969	Tin	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
06970	Titanium	SW-846 6010B		1 103515708003	12/22/2010 03:46	Tara L Snyder	2
10146	Zirconium	SW-846 6010B		1 103515708003	12/20/2010 21:19	John P Hook	1
06124	Antimony	SW-846 6020		1 103511026001A	12/23/2010 18:34	Choon Y Tian	2
06125	Arsenic	SW-846 6020		1 103511026001A	12/23/2010 18:34	Choon Y Tian	2
06126	Barium	SW-846 6020		1 103511026001D	12/23/2010 18:34	Choon Y Tian	2
06127	Beryllium	SW-846 6020		1 103511026001A	12/23/2010 18:34	Choon Y Tian	2
06128	Cadmium	SW-846 6020		1 103511026001A	12/24/2010 10:59	Choon Y Tian	2
06131	Chromium	SW-846 6020		1 103511026001A	12/23/2010 18:34	Choon Y Tian	2
06132	Cobalt	SW-846 6020		1 103511026001A	12/23/2010 18:34	Choon Y Tian	2
06133	Copper	SW-846 6020		1 103511026001A	12/23/2010 18:34	Choon Y Tian	2
06135	Lead	SW-846 6020		1 103511026001A	12/26/2010 07:22	Choon Y Tian	5
06138	Molybdenum	SW-846 6020		1 103511026001C	12/23/2010 18:34	Choon Y Tian	2
06139	Nickel	SW-846 6020		1 103511026001A	12/23/2010 18:34	Choon Y Tian	2
06141	Selenium	SW-846 6020		1 103511026001B	12/23/2010 18:34	Choon Y Tian	2
06142	Silver	SW-846 6020		1 103511026001A	12/23/2010 18:34	Choon Y Tian	2
06145	Thallium	SW-846 6020		1 103511026001A	12/23/2010 18:34	Choon Y Tian	2
06148	Vanadium	SW-846 6020		1 103511026001A	12/23/2010 18:34	Choon Y Tian	2
06149	Zinc	SW-846 6020		1 103511026001A	12/23/2010 18:34	Choon Y Tian	2
00159	Mercury	SW-846 7471A		1 103515711002	12/20/2010 06:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B		1 103515708003	12/17/2010 20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B		1 103511026001	12/17/2010 20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified		1 103515711002	12/17/2010 23:00	Annamaria Stipkovits	1

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

Sample Description: SED-032-SIV-SD-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SED-032-SIV-SD-0.0-0.5

LLI Sample # SW 6163887
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 14:57 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S3205 SDG#: DE037-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201B	01/05/2011 19:15	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201B	01/04/2011 09:08	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011 03:23	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201B	01/04/2011 14:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201B	01/01/2011 10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010 12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010 12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010 20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010 09:36	William C Schwebel	1

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Sample Description: SED-033-SIV-SD-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163888
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S3305 SDG#: DE037-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	530		1
04688	Benzidine	92-87-5	1,200	U 1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U 180	530		1
04688	Benzyl alcohol	100-51-6	180	U 180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U 35	180		1
04688	4-Chloroaniline	106-47-8	71	U 71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U 35	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U 35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U 35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U 710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U 35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U 71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	530		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	35	U 35	180		1
04688	4-Methylphenol	106-44-5	35	U 35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	35	U 35	180		1
04688	4-Nitroaniline	100-01-6	71	U 71	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	530		1
04688	Phenol	108-95-2	18	U 18	180		1

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Sample Description: SED-033-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163888
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S3305 SDG#: DE037-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U 35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U 35	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U 0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U 0.35	1.8		1
10138	Anthracene	120-12-7	0.99	J 0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	15	U 0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	25	U 0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	39	U 0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	11	U 0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	14	U 0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U 6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U 6.4	19		1
10138	Chrysene	218-01-9	20	U 0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	3.2	U 0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U 6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U 6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	17	J 6.4	19		1
10138	Fluoranthene	206-44-0	14	U 0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U 0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	10	U 0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.94	J 0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.96	J 0.71	1.8		1
10138	Naphthalene	91-20-3	1.1	J 0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U 0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U 6.4	19		1
10138	Phenanthrene	85-01-8	6.2	U 0.71	1.8		1
10138	Pyrene	129-00-0	15	U 0.71	1.8		1

Bis(2-ethylhexyl)phthalate was detected in the method blank at a concentration of 6.3 ug/kg. The blank value was not subtracted from the analytical result.

Herbicides		SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.3	U 1.3	3.8	1
10401	Dalapon	75-99-0	4.7	U 4.7	9.6	1
10401	2,4-DB	94-82-6	5.1	U 0.66	1.8	1
10401	Dicamba	1918-00-9	0.42	U 0.42	1.3	1
10401	Dinoseb	88-85-7	0.85	U 0.85	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U 0.85	1.8	1
10401	MCPA	94-74-6	270	U 270	270	1
10401	MCPP (Mecoprop)	93-65-2	410	U 410	410	1
10401	2,4,5-T	93-76-5	0.087	U 0.087	0.18	1
10401	2,4,5-TP	93-72-1	0.080	U 0.080	0.18	1

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

2,4-DB is detected in the method blank at a concentration of 1.2 ug/l. The sample was reextracted outside the sample hold time. The method blank in the

Sample Description: SED-033-SIV-SD-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163888
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S3305 SDG#: DE037-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
reextraction has no analytes detected. Similar results were obtained in both extractions. The original, in hold, trial data is reported.							
Due to interfering peaks on the chromatogram, the values reported for MCP and MCPA represent the lowest reporting limits attainable.							
Pesticides/PCBs		SW-846 8081A	ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070 U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.16 J	0.036	0.18		1
01363	Beta BHC	319-85-7	0.064 U	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036 U	0.036	0.18		1
01363	Chlordane	57-74-9	0.85 U	0.85	3.6		1
01363	p,p-DDD	72-54-8	0.29 U	0.29	0.36		1
01363	p,p-DDE	72-55-9	0.11 U	0.11	0.36		1
01363	p,p-DDT	50-29-3	0.37 U	0.37	0.37		1
01363	Delta BHC	319-86-8	0.038 U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.15 U	0.15	0.36		1
01363	Endosulfan I	959-98-8	0.047 U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070 U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070 U	0.070	0.36		1
01363	Endrin	72-20-8	0.070 U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.070 U	0.070	0.36		1
01363	Endrin Ketone	53494-70-5	0.070 U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064 U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.047 U	0.047	0.18		1
01363	Methoxychlor	72-43-5	0.36 U	0.36	1.8		1
01363	Mirex	2385-85-5	0.070 U	0.070	0.36		1
01363	Toxaphene	8001-35-2	2.3 U	2.3	7.0		1

The surrogate TCX recovery in the LCS is outside the QC limits. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction so all results are reported from the original extract. Similar results were obtained in both extracts. Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	2.1 U	2.1	7.0	2
10225	Aroclor 5442	12642-23-8	2.1 U	2.1	7.0	2
10225	Aroclor 5460	11126-42-4	2.1 U	2.1	7.0	2
10225	PCB-1016	12674-11-2	0.70 U	0.70	3.6	2
10225	PCB-1221	11104-28-2	1.1 U	1.1	3.6	2
10225	PCB-1232	11141-16-5	1.1 U	1.1	3.6	2
10225	PCB-1242	53469-21-9	1.1 U	1.1	3.6	2
10225	PCB-1248	12672-29-6	0.70 U	0.70	3.6	2
10225	PCB-1254	11097-69-1	1.7 J	0.70	3.6	2
10225	PCB-1260	11096-82-5	2.1 J	0.70	3.6	2
10225	PCB-1262	37324-23-5	0.70 U	0.70	3.6	2
10225	PCB-1268	11100-14-4	0.70 U	0.70	3.6	2

The stated QC limits are advisory only until sufficient data points

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Sample Description: SED-033-SIV-SD-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163888
 LLI Group # 1225274
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S3305 SDG#: DE037-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
can be obtained to calculate statistical limits.							
Metals SW-846 6010B			mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	7,300	5.13	20.4		1
07914	Boron	7440-42-8	3.23 J	0.908	5.10		1
01650	Calcium	7440-70-2	1,710	6.26	20.4		1
01654	Iron	7439-89-6	13,900	4.81	20.4		1
01656	Lithium	7439-93-2	14.9	0.22	2.0		1
01657	Magnesium	7439-95-4	3,090	2.59	10.2		1
06958	Manganese	7439-96-5	247	0.0796	0.510		1
10145	Phosphorus	7723-14-0	267	0.572	10.2		1
01662	Potassium	7440-09-7	1,810	18.4	51.0		1
01667	Sodium	7440-23-5	64.8 J	38.1	102		1
07968	Strontium	7440-24-6	9.87	0.0633	0.510		1
06969	Tin	7440-31-5	1.86 J	1.02	10.2		1
06970	Titanium	7440-32-6	759	0.388	1.02		1
10146	Zirconium	7440-67-7	0.857 U	0.857	5.10		1
SW-846 6020			mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.286	0.0624	0.208		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.50	0.0624	0.416		2
06126	Barium	7440-39-3	133	0.112	0.416		2
06127	Beryllium	7440-41-7	0.782	0.0167	0.104		2
06128	Cadmium	7440-43-9	0.150	0.0375	0.104		2
06131	Chromium	7440-47-3	36.8	0.125	0.416		2
06132	Cobalt	7440-48-4	7.49	0.0208	0.104		2
06133	Copper	7440-50-8	15.8	0.0687	0.416		2
06135	Lead	7439-92-1	15.0	0.0108	0.208		2
06138	Molybdenum	7439-98-7	0.691	0.0520	0.104		2
06139	Nickel	7440-02-0	21.6	0.104	0.416		2
06141	Selenium	7782-49-2	0.209 J	0.0416	0.416		2
06142	Silver	7440-22-4	0.329	0.0125	0.104		2
06145	Thallium	7440-28-0	0.435	0.0312	0.104		2
06148	Vanadium	7440-62-2	58.0	0.0229	0.104		2
06149	Zinc	7440-66-6	118	0.583	3.12		2
SW-846 7471A			mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.0998		1
Wet Chemistry EPA 300.0			mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90 J	0.85	1.1		1
EPA 314.0			ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	31.8		1
SW-846 7199			mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.1		1

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

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

Sample Description: SED-033-SIV-SD-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163888
LLI Group # 1225274
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/13/2010 15:40 by BH

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

Submitted: 12/14/2010 10:05

Reported: 01/25/2011 16:47

S3305 SDG#: DE037-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	433	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.00	0.0100	0.0100		1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	5.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10351SLB026	01/04/2011 07:42	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10351SLC026	12/30/2010 10:26	Linda M Hartenstine	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10351SLC026	12/18/2010 09:00	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10351SLB026	12/18/2010 09:00	Olivia I Santiago	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103510026A	12/21/2010 06:47	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103550006A	01/06/2011 03:28	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103510032A	12/23/2010 08:59	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103550006A	12/21/2010 14:30	Olivia I Santiago	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103510032A	12/20/2010 07:30	Joseph S Feister	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103510026A	12/20/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708003	12/20/2010 21:22	John P Hook	1

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

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

Sample Description: SED-033-SIV-SD-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SED-033-SIV-SD-0.0-0.5

LLI Sample # SW 6163888
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Project Name: SSFL Area IV Collocated Soil Sampling

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 14420 Albemarle Point Place
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S3305 SDG#: DE037-17*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
					Date	Time		
06958	Manganese	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708003	12/20/2010	21:22	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026001A	12/23/2010	18:37	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026001A	12/23/2010	18:37	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026001D	12/23/2010	18:37	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026001A	12/23/2010	18:37	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026001A	12/24/2010	11:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026001A	12/23/2010	18:37	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026001A	12/23/2010	18:37	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026001A	12/23/2010	18:37	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026001A	12/23/2010	18:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026001C	12/23/2010	18:37	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026001A	12/23/2010	18:37	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026001B	12/23/2010	18:37	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026001A	12/23/2010	18:37	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026001A	12/23/2010	18:37	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026001A	12/23/2010	18:37	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026001A	12/23/2010	18:37	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711002	12/20/2010	06:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708003	12/17/2010	20:18	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026001	12/17/2010	20:40	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711002	12/17/2010	23:00	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11004004201B	01/05/2011	19:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11001001201B	01/04/2011	09:32	Venia B McFadden	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10364243201A	01/04/2011	03:39	Venia B McFadden	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11004004201B	01/04/2011	14:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11001001201B	01/01/2011	10:45	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182101B	12/16/2010	12:10	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039401B	12/16/2010	12:10	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10364243201A	12/30/2010	20:00	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10349162402B	12/15/2010	09:36	William C Schwebel	1

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B103482AA	Sample number(s): 6163869-6163873, 6163876-6163877, 6163880, 6163884-6163885								
Acetone	6.7	U 6.7	8.0	ug/kg	183		32-209		
Benzene	0.10	U 0.10	4.0	ug/kg	100		80-120		
Bromobenzene	0.13	U 0.13	4.0	ug/kg	91		79-120		
Bromochloromethane	0.33	U 0.33	4.0	ug/kg	97		79-124		
Bromodichloromethane	0.08	U 0.08	4.0	ug/kg	97		78-120		
Bromoform	0.40	U 0.40	4.0	ug/kg	95		70-120		
Bromomethane	0.25	U 0.25	4.0	ug/kg	72		32-162		
2-Butanone	1.2	U 1.2	8.0	ug/kg	133		46-153		
n-Butylbenzene	0.12	U 0.12	4.0	ug/kg	98		72-120		
sec-Butylbenzene	0.06	U 0.06	4.0	ug/kg	97		75-120		
tert-Butylbenzene	0.16	U 0.16	4.0	ug/kg	92		75-120		
Carbon Tetrachloride	0.14	U 0.14	4.0	ug/kg	101		69-122		
Chlorobenzene	0.11	U 0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13	U 0.13	4.0	ug/kg	77		37-154		
2-Chloroethyl Vinyl Ether	0.30	U 0.30	4.0	ug/kg	94		43-146		
Chloroform	0.22	J 0.12	4.0	ug/kg	102		80-120		
Chloromethane	0.33	U 0.33	4.0	ug/kg	72		54-132		
2-Chlorotoluene	0.14	U 0.14	4.0	ug/kg	94		78-120		
4-Chlorotoluene	0.14	U 0.14	4.0	ug/kg	96		79-120		
Chlorotrifluoroethene	0.50	U 0.50	5.0	ug/kg	101		22-131		
1,2-Dibromo-3-chloropropane	0.70	U 0.70	4.0	ug/kg	90		58-120		
Dibromochloromethane	0.20	U 0.20	4.0	ug/kg	97		77-120		
1,2-Dibromoethane	0.17	U 0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24	U 0.24	4.0	ug/kg	99		80-120		
1,2-Dichlorobenzene	0.09	U 0.09	4.0	ug/kg	95		79-120		
1,3-Dichlorobenzene	0.12	U 0.12	4.0	ug/kg	92		78-120		
1,4-Dichlorobenzene	0.16	U 0.16	4.0	ug/kg	94		79-120		
Dichlorodifluoromethane	0.12	U 0.12	4.0	ug/kg	54		20-120		
1,1-Dichloroethane	0.10	U 0.10	4.0	ug/kg	99		80-120		
1,2-Dichloroethane	0.15	U 0.15	4.0	ug/kg	100		71-129		
1,1-Dichloroethene	0.39	U 0.39	4.0	ug/kg	99		73-123		
cis-1,2-Dichloroethene	0.19	U 0.19	4.0	ug/kg	99		80-120		
trans-1,2-Dichloroethene	0.12	U 0.12	4.0	ug/kg	98		79-120		
1,2-Dichloropropane	0.17	U 0.17	4.0	ug/kg	99		80-120		
1,3-Dichloropropane	0.08	U 0.08	4.0	ug/kg	96		80-120		
2,2-Dichloropropane	0.17	U 0.17	4.0	ug/kg	98		72-123		
1,1-Dichloropropene	0.13	U 0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16	U 0.16	4.0	ug/kg	91		80-120		
trans-1,3-Dichloropropene	0.17	U 0.17	4.0	ug/kg	90		77-120		
Ethylbenzene	0.06	U 0.06	4.0	ug/kg	98		80-120		
Freon 113	0.11	U 0.11	4.0	ug/kg	100		61-126		
Freon 133a	0.50	U 0.50	5.0	ug/kg	92		78-120		
Hexachlorobutadiene	0.14	U 0.14	4.0	ug/kg	92		57-120		
2-Hexanone	1.6	U 1.6	8.0	ug/kg	87		45-155		
Isopropylbenzene	0.06	U 0.06	4.0	ug/kg	99		76-120		
p-Isopropyltoluene	0.11	U 0.11	4.0	ug/kg	98		75-120		

*- Outside of specification

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

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	94		74-121		
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	78		61-134		
Methylene Chloride	1.3 J	0.24	4.0	ug/kg	99		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	100		77-120		
Styrene	0.10 U	0.10	4.0	ug/kg	97		76-120		
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	95		71-123		
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	99		77-120		
Toluene	0.09 J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	92		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	89		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	100		71-125		
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	96		80-120		
Trichloroethene	0.15 U	0.15	4.0	ug/kg	97		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	85		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	93		71-123		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	97		79-120		
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	96		78-120		
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	76		53-120		
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17 U	0.17	4.0	ug/kg	95		80-120		

Batch number: B103501AA	Sample number(s): 6163886								
Acetone	6.7 U	6.7	8.0	ug/kg	189	181	32-209	5	30
Benzene	0.10 U	0.10	4.0	ug/kg	105	105	80-120	0	30
Bromobenzene	0.13 U	0.13	4.0	ug/kg	93	92	79-120	1	30
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	101	101	79-124	0	30
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	98	97	78-120	0	30
Bromoform	0.40 U	0.40	4.0	ug/kg	95	94	70-120	1	30
Bromomethane	0.25 U	0.25	4.0	ug/kg	76	77	32-162	2	30
2-Butanone	1.2 U	1.2	8.0	ug/kg	144	139	46-153	3	30
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	100	99	72-120	1	30
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	99	99	75-120	0	30
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	94	95	75-120	1	30
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	103	102	69-122	1	30
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	98	98	80-120	0	30
Chloroethane	0.13 U	0.13	4.0	ug/kg	80	82	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	106	103	43-146	3	30
Chloroform	0.37 J	0.12	4.0	ug/kg	104	103	80-120	0	30
Chloromethane	0.33 U	0.33	4.0	ug/kg	89	90	54-132	0	30
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	96	96	78-120	1	30
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	96	95	79-120	0	30
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	84	85	22-131	2	30
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	97	94	58-120	4	30
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	97	95	77-120	2	30
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	99	97	80-120	2	30
Dibromomethane	0.24 U	0.24	4.0	ug/kg	102	100	80-120	2	30
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	95	95	79-120	0	30
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	93	93	78-120	0	30
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	95	93	79-120	1	30
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	76	75	20-120	1	30
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	104	104	80-120	1	30
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	103	102	71-129	1	30
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	101	100	73-123	1	30
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	103	102	80-120	2	30
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	102	101	79-120	0	30
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	104	103	80-120	1	30
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	100	99	80-120	1	30

*- Outside of specification

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

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	102	101	72-123	1	30
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	104	104	77-120	1	30
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	94	96	80-120	2	30
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	95	94	77-120	1	30
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	100	100	80-120	0	30
Freon 113	0.11 U	0.11	4.0	ug/kg	101	100	61-126	1	30
Freon 133a	0.50 U	0.50	5.0	ug/kg	85	85	78-120	1	30
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	90	91	57-120	1	30
2-Hexanone	1.6 U	1.6	8.0	ug/kg	95	93	45-155	3	30
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	101	100	76-120	1	30
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	99	100	75-120	1	30
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	101	100	74-121	1	30
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	84	82	61-134	3	30
Methylene Chloride	1.0 J	0.24	4.0	ug/kg	99	100	76-124	1	30
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	101	101	77-120	0	30
Styrene	0.10 U	0.10	4.0	ug/kg	97	97	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	98	97	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	97	95	71-123	2	30
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	100	98	77-120	2	30
Toluene	0.08 U	0.08	4.0	ug/kg	101	100	80-120	0	30
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	92	92	64-120	0	30
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	90	91	68-120	0	30
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	103	101	71-125	2	30
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	99	96	80-120	2	30
Trichloroethene	0.15 U	0.15	4.0	ug/kg	101	100	80-120	0	30
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	86	85	58-133	1	30
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	99	95	71-123	4	30
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	98	99	79-120	1	30
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	98	98	78-120	0	30
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	88	88	53-120	0	30
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	101	100	80-120	1	30
o-Xylene	0.17 U	0.17	4.0	ug/kg	98	96	80-120	2	30

 Batch number: E103491AA Sample number(s): 6163875
 1,4-Dioxane 0.5 U 0.5 2.0 ug/l 100 107 60-132 6 30

 Batch number: E103493AA Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886
 1,4-Dioxane 5.0 U 5.0 15 ug/kg 108 112 70-130 4 30

 Batch number: Y103512AA Sample number(s): 6163875
 Acetone 6 U 6. 20 ug/l 186 190 49-234 2 30
 Benzene 0.5 U 0.5 5 ug/l 96 95 79-120 1 30
 Bromobenzene 1 U 1. 5 ug/l 103 103 80-120 0 30
 Bromochloromethane 1 U 1. 5 ug/l 94 92 80-120 2 30
 Bromodichloromethane 1 U 1. 5 ug/l 91 91 80-120 0 30
 Bromoform 1 U 1. 5 ug/l 93 92 61-120 2 30
 Bromomethane 1 U 1. 5 ug/l 87 79 44-120 10 30
 2-Butanone 3 U 3. 10 ug/l 125 130 66-151 4 30
 n-Butylbenzene 1 U 1. 5 ug/l 100 100 74-120 1 30
 sec-Butylbenzene 1 U 1. 5 ug/l 107 106 78-120 1 30
 tert-Butylbenzene 1 U 1. 5 ug/l 97 97 80-120 0 30
 Carbon Tetrachloride 1 U 1. 5 ug/l 99 96 75-123 3 30
 Chlorobenzene 0.8 U 0.8 5 ug/l 94 95 80-120 0 30
 Chloroethane 1 U 1. 5 ug/l 82 75 49-129 9 30
 2-Chloroethyl Vinyl Ether 2 U 2. 10 ug/l 101 102 56-129 1 30
 Chloroform 0.8 U 0.8 5 ug/l 98 96 77-122 2 30
 Chloromethane 1 U 1. 5 ug/l 83 81 60-129 2 30
 2-Chlorotoluene 1 U 1. 5 ug/l 104 103 80-120 1 30

*- Outside of specification

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

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
4-Chlorotoluene	1 U	1.	5	ug/l	99	99	80-120	0	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	73	76	38-136	4	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	105	108	66-120	3	30
Dibromochloromethane	1 U	1.	5	ug/l	94	94	80-120	1	30
1,2-Dibromoethane	1 U	1.	5	ug/l	97	99	80-120	2	30
Dibromomethane	1 U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	96	95	80-120	1	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	102	100	80-120	2	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	99	98	80-120	1	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	77	72	47-120	6	30
1,1-Dichloroethane	1 U	1.	5	ug/l	98	97	79-120	1	30
1,2-Dichloroethane	1 U	1.	5	ug/l	96	95	70-130	1	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	100	103	74-123	4	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	95	95	80-120	0	30
1,2-Dichloropropane	1 U	1.	5	ug/l	93	93	78-120	0	30
1,3-Dichloropropane	1 U	1.	5	ug/l	98	99	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	91	90	77-124	2	30
1,1-Dichloropropene	1 U	1.	5	ug/l	98	95	80-120	2	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	87	87	80-120	0	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	93	92	79-120	0	30
Ethylbenzene	0.8 U	0.8	5	ug/l	98	97	79-120	2	30
Freon 113	2 U	2.	10	ug/l	112	115	69-128	3	30
Freon 133a	2 U	2.	5	ug/l	98	99	77-120	2	30
Hexachlorobutadiene	2 U	2.	5	ug/l	93	96	58-120	3	30
2-Hexanone	3 U	3.	10	ug/l	116	120	65-136	3	30
Isopropylbenzene	1 U	1.	5	ug/l	96	96	77-120	1	30
p-Isopropyltoluene	1 U	1.	5	ug/l	103	102	80-120	1	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	94	95	76-120	1	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	97	97	70-121	0	30
Methylene Chloride	2 U	2.	5	ug/l	98	100	80-120	3	30
n-Propylbenzene	1 U	1.	5	ug/l	110	108	80-120	1	30
Styrene	1 U	1.	5	ug/l	97	95	80-120	1	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	97	97	80-120	0	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	106	107	71-120	1	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	98	97	80-121	1	30
Toluene	0.7 U	0.7	5	ug/l	98	98	79-120	0	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	95	97	65-120	2	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	95	97	67-120	2	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	98	97	75-127	1	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	100	100	80-120	0	30
Trichloroethene	1 U	1.	5	ug/l	94	92	80-120	2	30
Trichlorofluoromethane	2 U	2.	5	ug/l	89	89	64-129	0	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	109	109	80-120	0	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	105	104	74-120	1	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	103	102	75-120	1	30
Vinyl Chloride	1 U	1.	5	ug/l	79	78	65-125	1	30
m+p-Xylene	0.8 U	0.8	5	ug/l	93	93	80-120	1	30
o-Xylene	0.8 U	0.8	5	ug/l	94	94	80-120	0	30

Batch number: 10349WAI026

Sample number(s): 6163875

Acenaphthene	0.010 U	0.010	0.050	ug/l	99	103	74-109	4	30
Acenaphthylene	0.010 U	0.010	0.050	ug/l	106	109	70-110	3	30
Anthracene	0.010 U	0.010	0.050	ug/l	106	109	66-111	2	30
Benzo(a)anthracene	0.010 U	0.010	0.050	ug/l	102	107	72-114	5	30
Benzo(a)pyrene	0.010 U	0.010	0.050	ug/l	101	104	64-115	3	30
Benzo(b)fluoranthene	0.010 U	0.010	0.050	ug/l	108	108	69-123	1	30
Benzo(g,h,i)perylene	0.010 U	0.010	0.050	ug/l	94	96	68-125	2	30

*- Outside of specification

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Benzo(k)fluoranthene	0.010 U	0.010	0.050	ug/l	102	106	72-122	4	30
Butylbenzylphthalate	0.076 J	0.050	1.0	ug/l	100	102	70-130	1	30
Di-n-butylphthalate	0.13 J	0.050	1.0	ug/l	107	113	70-130	5	30
Chrysene	0.010 U	0.010	0.050	ug/l	103	104	76-116	0	30
Dibenz(a,h)anthracene	0.010 U	0.010	0.050	ug/l	93	96	71-125	3	30
Diethylphthalate	0.063 J	0.050	1.0	ug/l	113	115	70-130	2	30
Dimethylphthalate	0.050 U	0.050	1.0	ug/l	96	91	70-130	5	30
Bis(2-Ethylhexyl)phthalate	0.11 J	0.050	1.0	ug/l	114	123	70-130	8	30
Fluoranthene	0.010 U	0.010	0.050	ug/l	108	110	75-116	2	30
Fluorene	0.010 U	0.010	0.050	ug/l	106	108	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010 U	0.010	0.050	ug/l	94	96	69-124	2	30
1-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	105	107	71-117	1	30
2-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	95	97	75-115	2	30
Naphthalene	0.010 U	0.010	0.050	ug/l	100	102	72-109	2	30
N-Nitrosodimethylamine	0.010 U	0.010	0.050	ug/l	84	87	70-130	3	30
Di-n-octylphthalate	0.084 J	0.050	1.0	ug/l	102	112	70-130	9	30
Phenanthrene	0.010 U	0.010	0.050	ug/l	99	103	76-111	4	30
Pyrene	0.010 U	0.010	0.050	ug/l	102	106	69-118	3	30

Batch number: 10350WAB026

Sample number(s): 6163875

Aniline	1 U	1.	5	ug/l	67	66	49-101	1	30
Benzidine	20 U	20.	60	ug/l	64	62	20-109	3	30
Benzoic acid	6 U	6.	15	ug/l	30	48	10-69	44*	30
Benzyl alcohol	5 U	5.	15	ug/l	79	91	66-97	14	30
4-Bromophenyl-phenylether	1 U	1.	5	ug/l	86	107	82-117	22	30
Carbazole	1 U	1.	5	ug/l	92	110	81-114	18	30
4-Chloro-3-methylphenol	1 U	1.	5	ug/l	89	112	70-123	22	30
4-Chloroaniline	1 U	1.	5	ug/l	51	58	42-124	14	30
bis(2-Chloroethoxy)methane	1 U	1.	5	ug/l	89	109	74-124	20	30
bis(2-Chloroethyl)ether	1 U	1.	5	ug/l	90	105	77-108	16	30
bis(2-Chloroisopropyl)ether	1 U	1.	5	ug/l	92	105	62-127	13	30
2-Chloronaphthalene	2 U	2.	5	ug/l	77	81	54-132	5	30
2-Chlorophenol	1 U	1.	5	ug/l	91	109*	77-108	18	30
4-Chlorophenyl-phenylether	2 U	2.	5	ug/l	90	111	82-111	21	30
Dibenzofuran	1 U	1.	5	ug/l	91	111*	83-108	20	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	84	94	67-108	12	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	83	93	63-110	12	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	82	93	65-113	12	30
3,3'-Dichlorobenzidine	2 U	2.	5	ug/l	53	57	49-111	9	30
2,4-Dichlorophenol	1 U	1.	5	ug/l	96	117*	80-109	20	30
2,4-Dimethylphenol	3 U	3.	10	ug/l	96	117*	72-110	20	30
3,5-Dimethylphenol	3 U	3.	10	ug/l	93	117	70-130	23	30
4,6-Dinitro-2-methylphenol	5 U	5.	15	ug/l	86	102	78-119	17	30
2,4-Dinitrophenol	10 U	10.	30	ug/l	77	91	64-120	16	30
2,4-Dinitrotoluene	1 U	1.	5	ug/l	93	110	81-115	17	30
2,6-Dinitrotoluene	1 U	1.	5	ug/l	90	110	85-115	20	30
1,2-Diphenylhydrazine	1 U	1.	5	ug/l	96	118*	78-116	21	30
Hexachlorobenzene	1 U	1.	5	ug/l	88	108	81-118	20	30
Hexachlorobutadiene	1 U	1.	5	ug/l	81	92	57-124	13	30
Hexachlorocyclopentadiene	5 U	5.	15	ug/l	71	77	10-118	8	30
Hexachloroethane	1 U	1.	5	ug/l	80	91	52-113	13	30
Isophorone	1 U	1.	5	ug/l	91	114	74-117	22	30
2-Methylphenol	1 U	1.	5	ug/l	85	102*	64-101	18	30
4-Methylphenol	2 U	2.	5	ug/l	76	93	61-103	21	30
2-Nitroaniline	1 U	1.	5	ug/l	91	111	83-116	20	30
3-Nitroaniline	1 U	1.	5	ug/l	88	101	74-113	14	30
4-Nitroaniline	1 U	1.	5	ug/l	74	82	59-100	11	30
Nitrobenzene	1 U	1.	5	ug/l	90	104	75-109	14	30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
2-Nitrophenol	1 U	1.	5	ug/l	91	108	86-120	18	30
4-Nitrophenol	10 U	10.	30	ug/l	44	53	16-78	19	30
N-Nitroso-di-n-propylamine	1 U	1.	5	ug/l	89	108	69-110	19	30
N-Nitrosodiphenylamine	2 U	2.	5	ug/l	91	111	67-136	20	30
Pentachlorophenol	3 U	3.	15	ug/l	75	84	53-110	12	30
Phenol	1 U	1.	5	ug/l	40	47	29-67	17	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	85	100	71-112	16	30
2,4,5-Trichlorophenol	1 U	1.	5	ug/l	90	108*	79-107	19	30
2,4,6-Trichlorophenol	1 U	1.	5	ug/l	93	110	81-113	17	30

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10351SLB026	Sample number(s): 6163869-6163873,6163876-6163888								
Acenaphthene	17 U	17.	170	ug/kg	92		76-111		
Acenaphthylene	17 U	17.	170	ug/kg	95		75-122		
Aniline	170 U	170.	500	ug/kg	60		10-107		
Anthracene	17 U	17.	170	ug/kg	94		76-112		
Benzidine	1,200 U	1,200.	3,300	ug/kg	45		15-121		
Benzo(a)anthracene	17 U	17.	170	ug/kg	96		73-112		
Benzo(a)pyrene	17 U	17.	170	ug/kg	85		69-122		
Benzo(b)fluoranthene	17 U	17.	170	ug/kg	86		61-127		
Benzo(g,h,i)perylene	17 U	17.	170	ug/kg	81		65-122		
Benzo(k)fluoranthene	17 U	17.	170	ug/kg	87		67-125		
Benzoic acid	170 U	170.	500	ug/kg	97		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	96		68-111		
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	88		79-117		
Butylbenzylphthalate	17 U	17.	170	ug/kg	103		75-115		
Di-n-butylphthalate	17 U	17.	170	ug/kg	98		79-112		
Carbazole	17 U	17.	170	ug/kg	96		77-113		
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	94		74-119		
4-Chloroaniline	67 U	67.	170	ug/kg	34		10-110		
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	94		70-118		
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	93		70-104		
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	95		68-131		
2-Chloronaphthalene	17 U	17.	170	ug/kg	67		67-127		
2-Chlorophenol	17 U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	89		79-110		
Chrysene	17 U	17.	170	ug/kg	94		76-113		
Dibenz(a,h)anthracene	17 U	17.	170	ug/kg	83		70-128		
Dibenzofuran	17 U	17.	170	ug/kg	94		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	85		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	83		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	85		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	54		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	96		75-111		
Diethylphthalate	28 J	17.	170	ug/kg	97		76-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	98		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	96		70-130		
Dimethylphthalate	17 U	17.	170	ug/kg	94		77-109		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	80		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	72		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	94		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	91		79-115		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

<u>Analysis Name</u>	<u>Blank Result</u>		<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	102		77-111		
bis(2-Ethylhexyl)phthalate	18	J	17.	330	ug/kg	103		75-117		
Fluoranthene	17	U	17.	170	ug/kg	96		78-116		
Fluorene	17	U	17.	170	ug/kg	94		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	90		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	79		70-112		
Hexachlorocyclopentadiene	170		170.	500	ug/kg	72		46-115		
Hexachloroethane	17	U	17.	170	ug/kg	80		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	82		64-119		
Isophorone	17	U	17.	170	ug/kg	94		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	93		74-105		
2-Methylnaphthalene	17	U	17.	170	ug/kg	85		76-105		
2-Methylphenol	33	U	33.	170	ug/kg	98		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	94		66-117		
Naphthalene	17	U	17.	170	ug/kg	90		73-106		
2-Nitroaniline	17	U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	90		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	86		81-114		
4-Nitrophenol	170		170.	500	ug/kg	87		56-118		
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	92		63-107		
N-Nitrosodimethylamine	33	U	33.	170	ug/kg	88		60-106		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	95		67-141		
Di-n-octylphthalate	17	U	17.	170	ug/kg	99		68-130		
Pentachlorophenol	170		170.	500	ug/kg	72		35-106		
Phenanthrene	17	U	17.	170	ug/kg	94		77-113		
Phenol	17	U	17.	170	ug/kg	92		58-112		
Pyrene	17	U	17.	170	ug/kg	97		75-115		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	86		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	90		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	89		78-111		
Batch number: 10351SLC026	Sample number(s): 6163869-6163873,6163876-6163888									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	86		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	90		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	92		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	86		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	87		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	104		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	94		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	85		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	97		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	94		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	92		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	90		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	104		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	95		70-130		
Bis(2-Ethylhexyl)phthalate	6.3	J	6.0	18	ug/kg	102		67-143		
Fluoranthene	0.67	U	0.67	1.7	ug/kg	90		78-120		
Fluorene	0.67	U	0.67	1.7	ug/kg	94		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	90		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	94		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	90		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	83		67-120		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	81		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	90		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	86		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	94		56-121		
Batch number: 10354SLC026	Sample number(s): 6163869-6163873, 6163876-6163877, 6163880, 6163884-6163886								
N-Nitrosodimethylamine	16.7 U	16.7	33.3	ng/kg	80		70-130		
Batch number: 10349A34A	Sample number(s): 6163869-6163873, 6163876-6163877, 6163880, 6163884-6163886								
9a TPH by EPA 8015B Gas C5-C12	0.2 U	0.2	1.0	mg/kg	79	78	67-119	1	30
Batch number: 103550019A	Sample number(s): 6163869-6163873, 6163876-6163877, 6163880, 6163884-6163886								
4-Amino-2,6-Dinitrotoluene	75 U	75.	150	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	50 U	50.	150	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	100 U	100.	300	ug/kg	90	89	54-134	2	30
2,4-Diamino-6-nitrotoluene	100 U	100.	300	ug/kg	90	88	54-134	2	30
1,3-Dinitrobenzene	50 U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50 U	50.	150	ug/kg	103		72-135		
2,6-Dinitrotoluene	50 U	50.	150	ug/kg	108		80-120		
HMX	130 U	130.	380	ug/kg	83		74-130		
Nitrobenzene	50 U	50.	150	ug/kg	102		80-120		
Nitroglycerin	1,000 U	1,000.	3,000	ug/kg	94		80-120		
2-Nitrotoluene	100 U	100.	150	ug/kg	108		78-128		
3-Nitrotoluene	130 U	130.	150	ug/kg	109		73-127		
4-Nitrotoluene	100 U	100.	150	ug/kg	107		80-120		
PETN	1,000 U	1,000.	3,000	ug/kg	106		80-120		
RDX	63 U	63.	150	ug/kg	106		75-131		
Tetryl	77 U	77.	150	ug/kg	135		70-168		
1,3,5-Trinitrobenzene	50 U	50.	150	ug/kg	121		77-137		
2,4,6-Trinitrotoluene	50 U	50.	150	ug/kg	109		80-120		
Batch number: 103510021A	Sample number(s): 6163869-6163873, 6163876-6163877, 6163880, 6163884-6163886								
17a Formaldehyde by 8315A	600 U	600.	1,500	ug/kg	100		80-126		
Batch number: 103490003A	Sample number(s): 6163875								
2,4-D	0.16 U	0.16	0.50	ug/l	112	108	45-128	4	30
Dalapon	0.25 U	0.25	1.3	ug/l	92	97	40-100	5	30
2,4-DB	0.30 U	0.30	1.0	ug/l	100	100	41-138	0	30
Dicamba	0.080 U	0.080	0.30	ug/l	108	112	51-144	4	30
Dinoseb	0.10 U	0.10	0.50	ug/l	53	42	23-93	24	30
2,4-DP (Dichlorprop)	0.16 U	0.16	0.50	ug/l	116	116	72-145	0	30
MCPA	300 U	300.	1,000	ug/l	92	72	69-129	24	30
MCPP	50 U	50.	200	ug/l	96	92	66-132	4	30
2,4,5-T	0.015 U	0.015	0.050	ug/l	104	108	53-141	4	30
2,4,5-TP	0.010 U	0.010	0.050	ug/l	100	96	56-135	4	30
Batch number: 103510026A	Sample number(s): 6163878-6163883, 6163887-6163888								
2,4-D	1.2 U	1.2	3.6	ug/kg	118		40-140		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

<u>Analysis Name</u>	<u>Blank Result</u>		<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Dalapon	4.4	U	4.4	9.0	ug/kg	83		24-89		
2,4-DB	1.2	J	0.62	1.7	ug/kg	95		34-138		
Dicamba	0.40	U	0.40	1.2	ug/kg	86		20-164		
Dinoseb	0.80	U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80	U	0.80	1.7	ug/kg	106		60-141		
MCPA	76	U	76.	250	ug/kg	96		34-113		
MCPP (Mecoprop)	160		75.	250	ug/kg	112		29-154		
	J									
2,4,5-T	0.082	U	0.082	0.17	ug/kg	99		33-145		
2,4,5-TP	0.075	U	0.075	0.17	ug/kg	89		48-138		
Batch number: 103490017A	Sample number(s): 6163879,6163887									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	98		85-115		
Batch number: 110040016A	Sample number(s): 6163884									
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	105		85-115		
Batch number: 103500016A	Sample number(s): 6163875									
Aldrin	0.0020	U	0.0020	0.010	ug/l	96	101	54-159	5	30
Alpha BHC	0.0030	U	0.0030	0.010	ug/l	101	102	59-146	1	30
Beta BHC	0.0029	U	0.0029	0.010	ug/l	98	101	73-147	3	30
Gamma BHC - Lindane	0.0020	U	0.0020	0.010	ug/l	95	101	68-128	6	30
Chlordane	0.12	U	0.12	0.50	ug/l					
p,p-DDD	0.0050	U	0.0050	0.020	ug/l	100	110	71-139	10	30
p,p-DDE	0.0050	U	0.0050	0.020	ug/l	126	137*	66-130	8	30
p,p-DDT	0.0050	U	0.0050	0.020	ug/l	85	90	53-126	6	30
Delta BHC	0.0029	U	0.0029	0.010	ug/l	103	113	76-148	10	30
Dieldrin	0.0053	U	0.0053	0.020	ug/l	100	100	76-132	0	30
Endosulfan I	0.0043	U	0.0043	0.010	ug/l	78	83	68-128	6	30
Endosulfan II	0.015	U	0.015	0.020	ug/l	90	95	59-144	5	30
Endosulfan Sulfate	0.0058	U	0.0058	0.020	ug/l	95	100	71-142	5	30
Endrin	0.0081	U	0.0081	0.020	ug/l	85	85	52-132	0	30
Endrin Aldehyde	0.020	U	0.020	0.10	ug/l	105	110	68-139	5	20
Endrin Ketone	0.0050	U	0.0050	0.020	ug/l	90	105	69-146	15	30
Heptachlor	0.0026	U	0.0026	0.010	ug/l	93	102	57-126	9	30
Heptachlor Epoxide	0.0023	U	0.0023	0.010	ug/l	98	102	73-156	4	30
Methoxychlor	0.030	U	0.030	0.10	ug/l	91	97	52-133	6	30
Mirex	0.085	U	0.085	0.25	ug/l					
Toxaphene	1.0	U	1.0	3.0	ug/l					
Batch number: 103500017A	Sample number(s): 6163875									
Aroclor 5432	0.10	U	0.10	0.50	ug/l					
Aroclor 5442	0.10	U	0.10	0.50	ug/l	58*	56*	75-125	4	30
Aroclor 5460	0.10	U	0.10	0.50	ug/l					
PCB-1016	0.10	U	0.10	0.50	ug/l	102	100	68-119	2	30
PCB-1221	0.10	U	0.10	0.50	ug/l					
PCB-1232	0.20	U	0.20	0.50	ug/l					
PCB-1242	0.10	U	0.10	0.50	ug/l					
PCB-1248	0.10	U	0.10	0.50	ug/l					
PCB-1254	0.10	U	0.10	0.50	ug/l					
PCB-1260	0.10	U	0.10	0.50	ug/l	112	112	68-121	0	30
PCB-1262	0.20	U	0.20	0.50	ug/l					
PCB-1268	0.16	U	0.16	0.50	ug/l					
Batch number: 103510032A	Sample number(s): 6163869-6163873,6163876-6163888									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	60*	60*	75-125	0	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
PCB-1016	0.33 U	0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.50 U	0.50	1.7	ug/kg					
PCB-1232	0.52 U	0.52	1.7	ug/kg					
PCB-1242	0.50 U	0.50	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.33 U	0.33	1.7	ug/kg	101		65-137		
PCB-1262	0.33 U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	0.33	1.7	ug/kg					

Batch number: 103550006A	Sample number(s): 6163878-6163883,6163887-6163888
Aldrin	0.066 U 0.066 0.17 ug/kg 61 44-135
Alpha BHC	0.034 U 0.034 0.17 ug/kg 58 38-130
Beta BHC	0.060 U 0.060 0.17 ug/kg 78 56-134
Gamma BHC - Lindane	0.034 U 0.034 0.17 ug/kg 76 46-127
Chlordane	0.80 U 0.80 3.4 ug/kg
p,p-DDD	0.066 U 0.066 0.34 ug/kg 92 60-137
p,p-DDE	0.066 U 0.066 0.34 ug/kg 102 59-141
p,p-DDT	0.066 U 0.066 0.34 ug/kg 126 54-130
Delta BHC	0.036 U 0.036 0.17 ug/kg 84 55-144
Dieldrin	0.066 U 0.066 0.34 ug/kg 99 65-129
Endosulfan I	0.044 U 0.044 0.17 ug/kg 94 45-123
Endosulfan II	0.066 U 0.066 0.34 ug/kg 110 63-127
Endosulfan Sulfate	0.066 U 0.066 0.34 ug/kg 108 72-138
Endrin	0.066 U 0.066 0.34 ug/kg 123 62-129
Endrin Aldehyde	0.066 U 0.066 0.34 ug/kg 58 55-132
Endrin Ketone	0.066 U 0.066 0.34 ug/kg 106 69-139
Heptachlor	0.060 U 0.060 0.17 ug/kg 85 43-124
Heptachlor Epoxide	0.034 U 0.034 0.17 ug/kg 84 65-131
Methoxychlor	0.34 U 0.34 1.7 ug/kg 131* 59-125
Mirex	0.066 U 0.066 0.34 ug/kg
Toxaphene	2.2 U 2.2 6.6 ug/kg

Batch number: 103500005A	Sample number(s): 6163869-6163870,6163876
Ethanol	100 U 100. 500 ug/kg 96 75-112
Isopropanol	100 U 100. 500 ug/kg 93 75-125
Methanol	110 J 100. 500 ug/kg 101 75-134

Batch number: 103510008A	Sample number(s): 6163880
Ethanol	100 U 100. 500 ug/kg 91 75-112
Isopropanol	100 U 100. 500 ug/kg 87 75-125
Methanol	100 U 100. 500 ug/kg 96 75-134

Batch number: 103540002A	Sample number(s): 6163871-6163873,6163877,6163884-6163886
Ethanol	100 U 100. 500 ug/kg 87 75-112
Isopropanol	100 U 100. 500 ug/kg 90 75-125
Methanol	100 U 100. 500 ug/kg 78 75-134

Batch number: 103550026A	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886
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Quality Control Summary

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 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	99		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	102		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	98		75-125		
Batch number: 103511026001A	Sample number(s): 6163869-6163874,6163876-6163888								
Antimony	0.0600 U	0.0600	0.200	mg/kg	107		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	95		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	98		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	92		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	98		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	92		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	105		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	95		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	98		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	95		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	101		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	90		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	97		78-122		
Batch number: 103511026001B	Sample number(s): 6163869-6163874,6163876-6163888								
Selenium	0.0400 U	0.0400	0.400	mg/kg	99		79-122		
Batch number: 103511026001C	Sample number(s): 6163869-6163874,6163876-6163888								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	105		78-122		
Batch number: 103511026001D	Sample number(s): 6163869-6163874,6163876-6163888								
Barium	0.108 U	0.108	0.400	mg/kg	98		79-121		
Batch number: 103515708003	Sample number(s): 6163869-6163874,6163876-6163888								
Aluminum	5.03 U	5.03	20.0	mg/kg	93		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	91		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	98		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	106		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	102		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	98		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	104		81-119		
Phosphorus	1.63 J	0.560	10.0	mg/kg	105		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	97		78-110		
Sodium	37.3 U	37.3	100	mg/kg	95		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	101		79-121		
Tin	1.28 J	1.00	10.0	mg/kg	105		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	102		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	100		80-120		
Batch number: 103515711002	Sample number(s): 6163869-6163874,6163876-6163888								
Mercury	0.0028 U	0.0028	0.0976	mg/kg	94		88-123		
Batch number: 103545713001	Sample number(s): 6163875								
Mercury	0.000050 U	0.00005	0.00020	mg/l	97		80-120		
Batch number: 103551848003	Sample number(s): 6163875								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	92	90-112	4	20
Boron	0.0138 U	0.0138	0.0500	mg/l	97	94	90-110	3	20
Calcium	0.0960 J	0.0702	0.200	mg/l	102	99	90-112	3	20
Iron	0.0522 U	0.0522	0.200	mg/l	102	98	90-112	4	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	98	80-120	2	20
Magnesium	0.0421 J	0.0172	0.100	mg/l	101	98	89-110	3	20

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Group Number: 1225274

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Manganese	0.00084 U	0.00084	0.0050	mg/l	103	101	90-110	3	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	104	102	80-120	2	20
Potassium	0.239 U	0.239	0.500	mg/l	100	99	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	100	100	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	97	90-110	3	20
Tin	0.0098 U	0.0098	0.0200	mg/l	103	101	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	102	90-113	3	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	99	80-120	3	20

Batch number: 103556050002A	Sample number(s): 6163875								
Antimony	0.00030 U	0.00030	0.0010	mg/l	105	110	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	99	106	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	108	103	90-112	5	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	110	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	98	102	90-118	4	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	104	80-120	3	20
Copper	0.00038 U	0.00038	0.0020	mg/l	104	104	90-113	0	20
Lead	0.000052 U	0.00005	0.0010	mg/l	105	107	90-115	2	20
	U	2							
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	109	90-113	2	20
Silver	0.000080 U	0.00008	0.00050	mg/l	107	108	90-115	2	20
	U	0							
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	101	89-116	0	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	104	108	80-120	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	109	105	80-120	4	20
Batch number: 103556050002B	Sample number(s): 6163875								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	107	85-114	0	20
Batch number: 103556050002C	Sample number(s): 6163875								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	106	103	80-120	2	20
Batch number: 103556050002D	Sample number(s): 6163875								
Barium	0.00038 U	0.00038	0.0020	mg/l	107	106	88-113	1	20
Batch number: 10348113001A	Sample number(s): 6163875								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	110	112*	90-110	2	20
Batch number: 10350196902A	Sample number(s): 6163875								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	100	90-110	0	20
Batch number: 10352658701A	Sample number(s): 6163875								
7b Perchlorate EPA 314.0	0.70 U	0.70	2.0	ug/l	90	91	85-115	1	20
Batch number: 10361102201A	Sample number(s): 6163869,6163871-6163872,6163874								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	101		80-120		
Batch number: 10361102202A	Sample number(s): 6163870,6163876-6163877,6163880,6163884-6163886								
21a Cyanide by 9012B	0.13 U	0.13	0.50	mg/kg	105		80-120		
Batch number: 10364243201A	Sample number(s): 6163869-6163872,6163874,6163876-6163888								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	97		80-120		
Batch number: 11001001201A	Sample number(s): 6163869-6163872,6163874,6163876-6163882								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	104		85-115		
Batch number: 11001001201B	Sample number(s): 6163883-6163888								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	104		85-115		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 11004004201A	Sample number(s): 6163869-6163872,6163874,6163876-6163882								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	110		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	109		90-110		
Batch number: 11004004201B	Sample number(s): 6163883-6163888								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	110		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	109		90-110		
Batch number: 10350039401A	Sample number(s): 6163869-6163871,6163874,6163876-6163881								
22a pH by 9045C					100		95-105		
Batch number: 10350039401B	Sample number(s): 6163882-6163888								
22a pH by 9045C					100		95-105		
Batch number: 10350182101A	Sample number(s): 6163869-6163871,6163874,6163876-6163881								
Oxidation Reduction Potential					100		98-102		
Batch number: 10350182101B	Sample number(s): 6163882-6163888								
Oxidation Reduction Potential					100		98-102		
Batch number: 10351020001A	Sample number(s): 6163875								
22b pH by 9040B					100		99-101		
Batch number: 10349162402B	Sample number(s): 6163878-6163879,6163881-6163883,6163887-6163888								
28a Moisture Content by 160.3					100		80-120		
Batch number: 10364162402B	Sample number(s): 6163869-6163874,6163876-6163877,6163880,6163884-6163886								
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103482AA	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163885 UNSPK: 6163871								
Acetone	169	181	15-210	3	30				
Benzene	99	95	55-143	8	30				
Bromobenzene	87	77	43-139	16	30				
Bromochloromethane	97	91	60-137	10	30				
Bromodichloromethane	96	90	53-136	10	30				
Bromoform	85	81	38-124	9	30				
Bromomethane	72	64	42-168	16	30				
2-Butanone	114	120	37-163	1	30				
n-Butylbenzene	82	67	30-146	24	30				
sec-Butylbenzene	87	73	33-157	21	30				
tert-Butylbenzene	88	74	41-152	20	30				
Carbon Tetrachloride	102	96	45-153	10	30				
Chlorobenzene	92	83	49-135	15	30				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Chloroethane	78	68	39-152	18	30				
2-Chloroethyl Vinyl Ether	84	89	32-139	2	30				
Chloroform	103	96	61-142	10	30				
Chloromethane	77	72	51-163	10	30				
2-Chlorotoluene	89	77	42-146	18	30				
4-Chlorotoluene	88	75	39-145	19	30				
Chlorotrifluoroethene	104	104	70-130	2	30				
1,2-Dibromo-3-chloropropane	79	77	30-139	7	30				
Dibromochloromethane	93	88	51-128	10	30				
1,2-Dibromoethane	88	86	54-129	6	30				
Dibromomethane	94	90	57-130	8	30				
1,2-Dichlorobenzene	83	71	36-133	19	30				
1,3-Dichlorobenzene	81	69	34-134	19	30				
1,4-Dichlorobenzene	82	70	35-136	19	30				
Dichlorodifluoromethane	53	50	26-151	11	30				
1,1-Dichloroethane	101	96	63-142	9	30				
1,2-Dichloroethane	98	94	68-131	8	30				
1,1-Dichloroethene	101	97	61-149	7	30				
cis-1,2-Dichloroethene	98	93	60-136	9	30				
trans-1,2-Dichloroethene	99	92	59-142	11	30				
1,2-Dichloropropane	98	93	62-135	9	30				
1,3-Dichloropropane	94	90	58-129	8	30				
2,2-Dichloropropane	96	92	53-147	8	30				
1,1-Dichloropropene	97	93	54-145	8	30				
cis-1,3-Dichloropropene	85	83	51-131	6	30				
trans-1,3-Dichloropropene	87	83	49-129	8	30				
Ethylbenzene	92	83	44-141	15	30				
Freon 113	102	95	56-156	11	30				
Freon 133a	90	94	70-130	6	30				
Hexachlorobutadiene	65	51	10-155	28	30				
2-Hexanone	76	80	32-160	0	30				
Isopropylbenzene	89	78	38-144	17	30				
p-Isopropyltoluene	85	71	29-152	21	30				
Methyl Tertiary Butyl Ether	88	87	55-129	4	30				
4-Methyl-2-pentanone	66	70	46-139	3	30				
Methylene Chloride	99	87	61-141	16	30				
n-Propylbenzene	92	80	39-157	17	30				
Styrene	89	79	35-134	16	30				
1,1,1,2-Tetrachloroethane	97	87	52-130	15	30				
1,1,2,2-Tetrachloroethane	90	87	40-152	7	30				
Tetrachloroethene	94	84	42-149	14	30				
Toluene	97	90	50-146	11	30				
1,2,3-Trichlorobenzene	60	50	10-140	21	30				
1,2,4-Trichlorobenzene	61	50	10-136	24	30				
1,1,1-Trichloroethane	101	95	64-142	9	30				
1,1,2-Trichloroethane	93	89	54-139	9	30				
Trichloroethene	95	90	53-144	9	30				
Trichlorofluoromethane	88	81	47-163	12	30				
1,2,3-Trichloropropane	90	88	45-154	5	30				
1,2,4-Trimethylbenzene	89	76	37-149	19	30				
1,3,5-Trimethylbenzene	89	77	38-150	18	30				
Vinyl Chloride	78	74	50-154	9	30				
m+p-Xylene	93	82	44-137	16	30				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
o-Xylene	88	78	42-137	16	30				
Batch number: B103501AA	Sample number(s): 6163886 UNSPK: P164946								
Acetone	176		15-210						
Benzene	108		55-143						
Bromobenzene	92		43-139						
Bromochloromethane	98		60-137						
Bromodichloromethane	99		53-136						
Bromoform	87		38-124						
Bromomethane	80		42-168						
2-Butanone	125		37-163						
n-Butylbenzene	100		30-146						
sec-Butylbenzene	100		33-157						
tert-Butylbenzene	94		41-152						
Carbon Tetrachloride	108		45-153						
Chlorobenzene	99		49-135						
Chloroethane	86		39-152						
2-Chloroethyl Vinyl Ether	90		32-139						
Chloroform	106		61-142						
Chloromethane	101		51-163						
2-Chlorotoluene	97		42-146						
4-Chlorotoluene	97		39-145						
1,2-Dibromo-3-chloropropane	78		30-139						
Dibromochloromethane	94		51-128						
1,2-Dibromoethane	92		54-129						
Dibromomethane	97		57-130						
1,2-Dichlorobenzene	94		36-133						
1,3-Dichlorobenzene	92		34-134						
1,4-Dichlorobenzene	93		35-136						
Dichlorodifluoromethane	83		26-151						
1,1-Dichloroethane	108		63-142						
1,2-Dichloroethane	103		68-131						
1,1-Dichloroethene	114		61-149						
cis-1,2-Dichloroethene	105		60-136						
trans-1,2-Dichloroethene	109		59-142						
1,2-Dichloropropane	104		62-135						
1,3-Dichloropropane	97		58-129						
2,2-Dichloropropane	101		53-147						
1,1-Dichloropropene	108		54-145						
cis-1,3-Dichloropropene	91		51-131						
trans-1,3-Dichloropropene	88		49-129						
Ethylbenzene	101		44-141						
Freon 113	115		56-156						
Hexachlorobutadiene	88		10-155						
2-Hexanone	78		32-160						
Isopropylbenzene	100		38-144						
p-Isopropyltoluene	99		29-152						
Methyl Tertiary Butyl Ether	93		55-129						
4-Methyl-2-pentanone	68		46-139						
Methylene Chloride	101		61-141						
n-Propylbenzene	104		39-157						
Styrene	99		35-134						
1,1,1,2-Tetrachloroethane	99		52-130						

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,1,2,2-Tetrachloroethane	87		40-152						
Tetrachloroethene	101		42-149						
Toluene	104		50-146						
1,2,3-Trichlorobenzene	80		10-140						
1,2,4-Trichlorobenzene	81		10-136						
1,1,1-Trichloroethane	107		64-142						
1,1,2-Trichloroethane	95		54-139						
Trichloroethene	103		53-144						
Trichlorofluoromethane	94		47-163						
1,2,3-Trichloropropane	85		45-154						
1,2,4-Trimethylbenzene	98		37-149						
1,3,5-Trimethylbenzene	99		38-150						
Vinyl Chloride	91		50-154						
m+p-Xylene	102		44-137						
o-Xylene	96		42-137						

Batch number: E103493AA

Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163871

1,4-Dioxane	104	95	70-130	9	30
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Batch number: 10351SLB026

Sample number(s): 6163869-6163873,6163876-6163888 UNSPK: 6163871

Acenaphthene	96	83	75-115	15	30
Acenaphthylene	98	85	49-126	15	30
Aniline	58	44	14-114	27	30
Anthracene	96	85	75-115	13	30
Benzidine	38	23*	35-141	46*	30
Benzo(a)anthracene	94	83	65-122	12	30
Benzo(a)pyrene	87	75	57-126	15	30
Benzo(b)fluoranthene	88	69	59-125	24	30
Benzo(g,h,i)perylene	82	72	59-127	14	30
Benzo(k)fluoranthene	89	82	56-132	8	30
Benzoic acid	63	47	10-173	29	30
Benzyl alcohol	97	88	55-123	10	30
4-Bromophenyl-phenylether	91	80	67-129	13	30
Butylbenzylphthalate	106	89	73-134	18	30
Di-n-butylphthalate	101	86	67-123	16	30
Carbazole	98	86	64-120	13	30
4-Chloro-3-methylphenol	96	85	53-130	12	30
4-Chloroaniline	43	37	23-95	14	30
bis(2-Chloroethoxy)methane	93	84	54-117	10	30
bis(2-Chloroethyl)ether	95	85	60-116	11	30
bis(2-Chloroisopropyl)ether	98	88	55-142	11	30
2-Chloronaphthalene	94	83	50-141	12	30
2-Chlorophenol	97	88	73-121	10	30
4-Chlorophenyl-phenylether	95	79	64-119	17	30
Chrysene	98	85	62-128	14	30
Dibenz(a,h)anthracene	83	73	65-125	13	30
Dibenzofuran	97	84	71-112	14	30
1,2-Dichlorobenzene	88	81	66-108	8	30
1,3-Dichlorobenzene	85	78	63-109	9	30
1,4-Dichlorobenzene	87	78	53-113	10	30
3,3'-Dichlorobenzidine	37	32	25-123	13	30
2,4-Dichlorophenol	99	88	78-117	12	30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Diethylphthalate	98	84	66-118	15	30				
2,4-Dimethylphenol	98	87	56-130	12	30				
3,5-Dimethylphenol	101	91	70-130	10	30				
Dimethylphthalate	97	83	64-118	16	30				
4,6-Dinitro-2-methylphenol	78	62	10-148	22	30				
2,4-Dinitrophenol	53	37	20-143	35*	30				
2,4-Dinitrotoluene	97	84	57-114	15	30				
2,6-Dinitrotoluene	97	82	69-123	17	30				
1,2-Diphenylhydrazine	103	90	71-129	14	30				
bis(2-Ethylhexyl)phthalate	103	88	63-122	15	30				
Fluoranthene	98	86	59-122	13	30				
Fluorene	97	84	60-125	14	30				
Hexachlorobenzene	92	80	61-111	14	30				
Hexachlorobutadiene	81	73	62-120	10	30				
Hexachlorocyclopentadiene	72	61	10-153	17	30				
Hexachloroethane	84	74	57-109	13	30				
Indeno(1,2,3-cd)pyrene	83	72	61-126	14	30				
Isophorone	96	85	51-118	12	30				
1-Methylnaphthalene	94	85	73-112	10	30				
2-Methylnaphthalene	87	79	76-114	10	30				
2-Methylphenol	102	89	47-142	13	30				
4-Methylphenol	97	85	55-126	13	30				
Naphthalene	91	81	72-116	11	30				
2-Nitroaniline	96	83	67-125	15	30				
3-Nitroaniline	90	79	59-122	13	30				
4-Nitroaniline	74	63	52-112	16	30				
Nitrobenzene	92	83	51-114	11	30				
2-Nitrophenol	89	78	74-115	13	30				
4-Nitrophenol	92	77	39-133	17	30				
N-Nitroso-di-n-propylamine	95	84	60-116	12	30				
N-Nitrosodimethylamine	94	85	47-116	10	30				
N-Nitrosodiphenylamine	97	86	86-145	13	30				
Di-n-octylphthalate	104	85	56-126	20	30				
Pentachlorophenol	69	59	17-149	17	30				
Phenanthrene	97	84	65-125	14	30				
Phenol	95	85	58-126	11	30				
Pyrene	101	87	51-151	16	30				
1,2,4-Trichlorobenzene	87	79	72-115	9	30				
2,4,5-Trichlorophenol	91	78	34-139	16	30				
2,4,6-Trichlorophenol	94	77	49-140	20	30				

Batch number: 10351SLC026 Sample number(s): 6163869-6163873,6163876-6163888 UNSPK: 6163871

Acenaphthene	84	87	63-105	3	30				
Acenaphthylene	90	95	55-126	5	30				
Anthracene	94	97	46-136	3	30				
Benzo(a)anthracene	90	93	39-144	3	30				
Benzo(a)pyrene	87	92	34-156	5	30				
Benzo(b)fluoranthene	102	105	43-155	3	30				
Benzo(g,h,i)perylene	47	51	33-141	8	30				
Benzo(k)fluoranthene	93	96	42-144	3	30				
Butylbenzylphthalate	104	103	73-140	1	30				
Di-n-butylphthalate	103	105	78-160	2	30				
Chrysene	90	93	29-156	3	30				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Dibenz(a,h)anthracene	56	60	41-130	5	30				
Diethylphthalate	107	112	87-131	5	30				
Dimethylphthalate	96	100	74-118	5	30				
Bis(2-Ethylhexyl)phthalate	91	90	39-167	1	30				
Fluoranthene	101	104	26-166	3	30				
Fluorene	92	95	45-121	3	30				
Indeno(1,2,3-cd)pyrene	54	57	21-143	5	30				
1-Methylnaphthalene	86	88	72-123	2	30				
2-Methylnaphthalene	81	82	28-121	1	30				
Naphthalene	82	84	61-102	1	30				
N-Nitrosodimethylamine	79	80	48-113	1	30				
Di-n-octylphthalate	115	115	40-192	1	30				
Phenanthrene	86	87	12-165	1	30				
Pyrene	84	88	15-153	5	30				
Batch number: 10354SLC026 Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163871									
N-Nitrosodimethylamine	76	66*	70-130	13	30				
Batch number: 10349A34A Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163871									
9a TPH by EPA 8015B Gas C5-C12	65	66	39-118	0	30				
Batch number: 103550019A Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163871									
4-Amino-2,6-Dinitrotoluene	106	107	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	105	80-137	0	50				
1,3-Dinitrobenzene	103	103	38-166	1	50				
2,4-Dinitrotoluene	100	101	80-131	0	50				
2,6-Dinitrotoluene	107	107	80-127	0	50				
HMX	81	83	63-128	2	50				
Nitrobenzene	100	100	80-125	0	50				
Nitroglycerin	94	93	80-120	0	50				
2-Nitrotoluene	106	105	80-122	1	50				
3-Nitrotoluene	107	106	72-119	1	50				
4-Nitrotoluene	106	106	80-125	0	50				
PETN	108	107	80-121	0	50				
RDX	97	99	75-129	2	50				
Tetryl	131	135	55-174	3	50				
1,3,5-Trinitrobenzene	118	119	82-126	0	50				
2,4,6-Trinitrotoluene	106	107	82-130	1	50				
Batch number: 103510021A Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163871									
17a Formaldehyde by 8315A	97	99	80-120	2	50				
Batch number: 103510026A Sample number(s): 6163878-6163883,6163887-6163888 UNSPK: 6163878									
2,4-D	140	79	28-161	56*	35				
Dalapon	47	100*	12-86	72*	50				
2,4-DB	188*	166	20-170	12	50				
Dicamba	5*	5*	33-120	0	50				
Dinoseb	41	44	1-44	8	35				
2,4-DP (Dichlorprop)	124	115	55-141	7	50				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
MCPA	232*	199*	31-184	15	50				
MCCP (Mecoprop)	102	89	16-174	10	50				
2,4,5-T	40	51	25-132	24	35				
2,4,5-TP	107	102	10-183	5	35				
Batch number: 103490017A	Sample number(s): 6163879,6163887 UNSPK: P162864								
6a Perchlorate EPA 6850	103	107	80-120	4	20				
Batch number: 110040016A	Sample number(s): 6163884 UNSPK: P167468								
6a Perchlorate EPA 6850	110	110	80-120	0	20				
Batch number: 103510032A	Sample number(s): 6163869-6163873,6163876-6163888 UNSPK: 6163871								
PCB-1016	102	111	29-146	9	50				
PCB-1260	114	115	39-149	1	50				
Batch number: 103550006A	Sample number(s): 6163878-6163883,6163887-6163888 UNSPK: P166190								
Aldrin	71	77	16-126	9	50				
Alpha BHC	88	94	10-129	7	50				
Beta BHC	84	100	14-147	17	50				
Gamma BHC - Lindane	94	100	10-140	6	50				
p,p-DDD	76	68	16-163	12	50				
p,p-DDE	106	111	18-161	4	50				
p,p-DDT	101	104	10-176	3	50				
Delta BHC	88	94	23-140	7	50				
Dieldrin	73	78	19-154	8	50				
Endosulfan I	76	79	16-137	4	50				
Endosulfan II	76	81	28-154	6	50				
Endosulfan Sulfate	133	86	21-160	43	50				
Endrin	95	86	11-149	10	50				
Endrin Aldehyde	47	73	10-148	43*	35				
Endrin Ketone	102	92	22-165	10	50				
Heptachlor	106	112	13-126	6	50				
Heptachlor Epoxide	77	81	13-157	4	50				
Methoxychlor	96	108	32-147	12	50				
Batch number: 103500005A	Sample number(s): 6163869-6163870,6163876 UNSPK: P163871								
Ethanol	83	83	24-143	0	20				
Isopropanol	84	82	75-125	3	20				
Methanol	74	86	45-136	14	20				
Batch number: 103510008A	Sample number(s): 6163880 UNSPK: 6163880								
Ethanol	81	72	24-143	12	20				
Isopropanol	86	84	75-125	2	20				
Methanol	90	80	45-136	12	20				
Batch number: 103540002A	Sample number(s): 6163871-6163873,6163877,6163884-6163886 UNSPK: 6163871								
Ethanol	82	84	24-143	3	20				
Isopropanol	84	85	75-125	1	20				
Methanol	75	86	45-136	14	20				
Batch number: 103550026A	Sample number(s): 6163869-6163873,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163871								
m-Terphenyl	90	88	75-125	3	20				

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Quality Control Summary

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 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

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o-Terphenyl	93	91	75-125	2	20				
p-Terphenyl	95	93	75-125	2	20				
Batch number: 103511026001A	Sample number(s): 6163869-6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871								
Antimony	51*	58*	75-125	11	20	0.241	0.146 J	49* (1)	20
Arsenic	140*	155*	75-125	4	20	6.09	7.02	14	20
Beryllium	114	108	75-125	1	20	0.848	0.852	0	20
Cadmium	129*	138*	75-125	8	20	0.0957 J	0.106	10 (1)	20
Chromium	100	97	75-125	0	20	33.8	36.0	6	20
Cobalt	99	108	75-125	9	20	7.99	8.43	5	20
Copper	96	100	75-125	3	20	10.6	11.4	8	20
Lead	92	67*	75-125	7	20	8.37	8.40	0	20
Nickel	100	102	75-125	1	20	15.1	16.4	8	20
Silver	122	130*	75-125	9	20	0.0302 J	0.0232 J	26* (1)	20
Thallium	112	118	75-125	4	20	0.320	0.325	1 (1)	20
Vanadium	121 (2)	80 (2)	75-125	5	20	67.8	71.1	5	20
Zinc	98 (2)	152 (2)	75-125	7	20	72.0	79.8	10	20
Batch number: 103511026001B	Sample number(s): 6163869-6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871								
Selenium	107	114	75-125	7	20	0.265 J	0.235 J	12 (1)	20
Batch number: 103511026001C	Sample number(s): 6163869-6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871								
Molybdenum	118	133*	75-125	14	20	0.458	0.573	22* (1)	20
Batch number: 103511026001D	Sample number(s): 6163869-6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871								
Barium	63 (2)	102 (2)	75-125	3	20	114	123	8	20
Batch number: 103515708003	Sample number(s): 6163869-6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871								
Aluminum	1450 (2)	1167 (2)	75-125	2	20	21,000	18,500	13	20
Boron	94	93	84-115	2	20	6.30	5.83	8 (1)	20
Calcium	-144 (2)	-221 (2)	75-125	5	20	6,500	5,640	14	20
Iron	483 (2)	835 (2)	75-125	1	20	26,200	25,400	3	20
Lithium	96	95	82-114	2	20	25.7	22.1	15	20
Magnesium	-242 (2)	-219 (2)	75-125	1	20	6,230	5,230	18	20
Manganese	167 (2)	180 (2)	75-125	1	20	343	345	1	20
Phosphorus	54*	108	75-125	12	20	371	379	2	20
Potassium	134*	101	75-125	8	20	3,220	2,900	10	20
Sodium	93	93	75-125	1	20	175	156	12 (1)	20
Strontium	96	96	75-115	0	20	28.5	26.1	9	20
Tin	94	93	80-110	2	20	2.03 J	2.06 J	2 (1)	20
Titanium	528 (2)	467 (2)	75-125	4	20	1,090	1,230	12	20
Zirconium	94	94	75-125	1	20	3.38 J	4.05 J	18 (1)	20
Batch number: 103515711002	Sample number(s): 6163869-6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871								
Mercury	95	96	65-135	3	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 10361102201A	Sample number(s): 6163869,6163871-6163872,6163874 UNSPK: 6163871 BKG: 6163871								
21a Cyanide by 9012B	109		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 10361102202A	Sample number(s): 6163870,6163876-6163877,6163880,6163884-6163886 UNSPK: 6163885								

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Quality Control Summary

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 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
21a Cyanide by 9012B	BKG: 6163885 100		75-125		0.18	U	0.18 U	0 (1) 20
Batch number: 10364243201A	Sample number(s): 6163869-6163872,6163874,6163876-6163888 UNSPK: 6163871 BKG: 6163871							
3a Cr VI by EPA 7199	99		75-125		0.23	J	0.31 J	32* (1) 20
Batch number: 11001001201A	Sample number(s): 6163869-6163872,6163874,6163876-6163882 UNSPK: 6163871 BKG: 6163871							
7a Perchlorate EPA 314.0	93		80-120		9.0	U	9.0 U	0 (1) 15
Batch number: 11001001201B	Sample number(s): 6163883-6163888 UNSPK: 6163883 BKG: 6163883							
7a Perchlorate EPA 314.0	95		80-120		9.0	U	9.0 U	0 (1) 15
Batch number: 11004004201A	Sample number(s): 6163869-6163872,6163874,6163876-6163882 UNSPK: 6163871 BKG: 6163871							
11a Anions by 300.0 - Fluoride	83		80-120		2.9		2.7	7 (1) 20
11a Anions by 300.0 - Nitrate	152*		80-120		11.5		10.3	11 20
Batch number: 11004004201B	Sample number(s): 6163883-6163888 UNSPK: 6163883 BKG: 6163883							
11a Anions by 300.0 - Fluoride	84		80-120		3.7		3.5	5 (1) 20
11a Anions by 300.0 - Nitrate	109		80-120		2.1		2.0	8 (1) 20
Batch number: 10350039401A	Sample number(s): 6163869-6163871,6163874,6163876-6163881 BKG: 6163871							
22a pH by 9045C					8.16		8.16	0 1
Batch number: 10350039401B	Sample number(s): 6163882-6163888 BKG: P164622							
22a pH by 9045C					8.38		8.39	0 1
Batch number: 10350182101A	Sample number(s): 6163869-6163871,6163874,6163876-6163881 BKG: 6163871							
Oxidation Reduction Potential					399		394	1 6
Batch number: 10350182101B	Sample number(s): 6163882-6163888 BKG: P164622							
Oxidation Reduction Potential					414		419	1 6
Batch number: 10351020001A	Sample number(s): 6163875 BKG: P165990							
22b pH by 9040B					6.8		6.8	0 1
Batch number: 10349162402B	Sample number(s): 6163878-6163879,6163881-6163883,6163887-6163888 BKG: 6163881							
28a Moisture Content by 160.3					8.5		8.8	4 20
Batch number: 10364162402B	Sample number(s): 6163869-6163874,6163876-6163877,6163880,6163884-6163886 BKG: 6163871							
28a Moisture Content by 160.3					11.4		11.7	3 20
28a Moisture Content by 160.3					11.4		11.7	3 20
28a Moisture Content by 160.3					11.4		11.7	3 20

Surrogate Quality Control

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Surrogate Quality Control

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

 Analysis Name: 1a Volatile Organics EPA 8260B
 Batch number: B103482AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6163869	106	102	97	92
6163870	105	100	99	88
6163871	107	108	96	93
6163872	100	100	102	98
6163873	101	103	101	98
6163876	104	101	97	91
6163877	104	100	97	92
6163880	104	101	100	88
6163884	105	102	97	93
6163885	104	100	98	92
Blank	104	102	96	92
LCS	101	105	100	100
MS	100	100	102	98
MSD	101	103	101	98
Limits:	80-120	80-120	81-117	74-121

 Analysis Name: 1a Volatile Organics EPA 8260B
 Batch number: B103501AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6163886	105	105	98	93
Blank	104	101	97	93
LCS	100	103	99	100
LCSD	99	102	100	100
MS	100	97	102	101
Limits:	80-120	80-120	81-117	74-121

 Analysis Name: 14b 1,4-Dioxane by 8260B SIM
 Batch number: E103491AA
 Toluene-d8

6163875	102
Blank	101
LCS	101
LCSD	101
Limits:	80-120

 Analysis Name: 14a 1,4-Dioxane by 8260B SIM
 Batch number: E103493AA
 Toluene-d8

6163869	101
6163870	100
6163871	100
6163872	101
6163873	100
6163876	102

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Surrogate Quality Control

 6163877 101
 6163880 100
 6163884 100
 6163885 101
 6163886 99
 Blank 99
 LCS 99
 LCSD 101
 MS 101
 MSD 100

Limits: 70-130

 Analysis Name: 1b Volatile Organics EPA8260
 Batch number: Y103512AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6163875	98	96	102	98
Blank	100	98	101	99
LCS	100	101	104	103
LCSD	97	97	103	102

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

 Analysis Name: 4b Select SVOC EPA 8270SIM
 Batch number: 10349WAI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6163875	125	90	102
Blank	101	97	108
LCS	103	93	99
LCSD	108	96	102

Limits: 40-130 45-130 45-135

 Analysis Name: 5b Semivolatiles by EPA 8270C
 Batch number: 10350WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6163875	52	34	85	81	82	79
Blank	53	36	81	84	81	83
LCS	59	40	86	85	86	83
LCSD	71	48	103	102	105	99

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

 Analysis Name: 5a Semivolatiles by EPA 8270C
 Batch number: 10351SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6163869	95	91	80	83	84	81
6163870	88	85	73	79	79	80
6163871	97	93	85	86	87	87
6163872	95	89	84	85	87	86
6163873	86	82	73	79	77	75
6163876	98	93	77	85	84	85
6163877	98	95	79	88	86	86

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Group Number: 1225274

Surrogate Quality Control

6163878	92	89	76	82	81	80
6163879	93	90	77	82	83	81
6163880	96	93	73	84	85	82
6163881	92	89	74	81	84	80
6163882	91	89	73	82	85	78
6163883	84	81	68	77	78	76
6163884	95	92	78	85	89	85
6163885	92	89	75	85	87	81
6163886	91	89	72	82	82	83
6163887	93	91	78	86	88	82
6163888	96	94	81	88	88	87
Blank	91	90	79	85	85	81
LCS	91	88	81	85	85	82
MS	95	89	84	85	87	86
MSD	86	82	73	79	77	75

Limits:	25-120	25-130	35-130	40-130	45-130	45-135
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 Analysis Name: 4a Select SVOC EPA 8270SIM
 Batch number: 10351SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6163869	93	87	107
6163870	89	87	90
6163871	91	84	90
6163872	91	83	87
6163873	93	87	88
6163876	87	82	88
6163877	100	88	98
6163878	100	90	97
6163879	98	89	93
6163880	100	89	92
6163881	100	90	108
6163882	97	85	90
6163883	102	92	98
6163884	103	89	96
6163885	100	89	97
6163886	97	85	94
6163887	104	90	98
6163888	102	90	101
Blank	95	87	98
LCS	92	85	94
MS	91	83	87
MSD	93	87	88

Limits:	40-130	45-130	45-135
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Analysis Name: 19a NDMA by 1625C

Batch number: 10354SLC026

N-Nitrosodimethylamine-d6

6163869	106
6163870	110
6163871	101
6163872	101
6163873	97

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Surrogate Quality Control

6163876	115
6163877	105
6163880	73
6163884	103
6163885	100
6163886	120
Blank	118
LCS	118
MS	101
MSD	97

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10349A34A
Trifluorotoluene-F

6163869	85
6163870	80
6163871	83
6163872	80
6163873	79
6163876	79
6163877	86
6163880	105
6163884	86
6163885	85
6163886	86
Blank	98
LCS	102
LCSD	99
MS	80
MSD	79

Limits: 61-122

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 103490003A
2,4-Dichlorophenylacetic acid

6163875	87
Blank	86
LCS	96
LCSD	112

Limits: 35-144

Analysis Name: 12b Pesticides by 8081A
Batch number: 103500016A
Tetrachloro-m-xylene Decachlorobiphenyl

6163875	103	69
Blank	103	97
LCS	99	86
LCSD	104	91

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Surrogate Quality Control

Limits: 52-141 40-144

Analysis Name: 8b PCBs/PCTs by 8082

Batch number: 103500017A

Tetrachloro-m-xylene Decachlorobiphenyl

6163875	119	93
Blank	123	119
LCS	117	114
LCSD	120	116

Limits: 30-150 45-120

Analysis Name: 17a Formaldehyde by 8315A

Batch number: 103510021A

Butyraldehyde

6163869	111
6163870	102
6163871	108
6163872	105
6163873	104
6163876	90
6163877	110
6163880	106
6163884	97
6163885	105
6163886	103
Blank	100
LCS	105
MS	105
MSD	104

Limits: 64-126

Analysis Name: 13a Herbicides by EPA 8151

Batch number: 103510026A

2,4-Dichlorophenylacetic
acid

6163878	116
6163879	114
6163880	89
6163881	101
6163882	108
6163883	96
6163887	137
6163888	99
Blank	113
LCS	100
MS	130
MSD	111

Limits: 36-156

Analysis Name: 8a PCBs/PCTs by 8082

Batch number: 103510032A

*- Outside of specification

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

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Surrogate Quality Control

	Tetrachloro-m-xylene	Decachlorobiphenyl
6163869	69	105
6163870	82	97
6163871	118	126*
6163872	101	108
6163873	113	116
6163876	99	112
6163877	92	102
6163878	108	110
6163879	84	88
6163880	99	120
6163881	86	94
6163882	97	98
6163883	103	190*
6163884	91	97
6163885	87	104
6163886	94	100
6163887	109	116
6163888	115	110
Blank	100	106
LCS	91	96
LCSD	93	105
MS	101	108
MSD	113	116

Limits: 53-139 45-120

 Analysis Name: 12a Pesticides by 8081A
 Batch number: 103550006A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6163878	66	103
6163879	64	98
6163880	78	101
6163881	73	94
6163882	77	42
6163883	70	70
6163887	71	135*
6163888	66	55
Blank	65	112
LCS	32*	108
MS	68	36
MSD	74	69

Limits: 50-130 20-120

 Analysis Name: 20a Energetics by 8330A
 Batch number: 103550019A
 2-Nitro-m-xylene

6163869	108
6163870	111
6163871	104
6163872	108
6163873	105
6163876	110

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Surrogate Quality Control

6163877	107
6163880	108
6163884	107
6163885	120
6163886	106
Blank	112
LCS	105
LCSD	102
MS	108
MSD	105

Limits: 80-146

Analysis Name: 25a Alcohols by 8015B
Batch number: 103500005A
Acetone

6163869	83
6163870	81
6163876	75
Blank	92
LCS	88
MS	77
MSD	76

Limits: 42-138

Analysis Name: 25a Alcohols by 8015B
Batch number: 103510008A
Acetone

6163880	96
Blank	97
LCS	91
MS	97
MSD	97

Limits: 42-138

Analysis Name: 25a Alcohols by 8015B
Batch number: 103540002A
Acetone

6163871	85
6163872	82
6163873	85
6163877	89
6163884	91
6163885	89
6163886	83
Blank	93
LCS	90
MS	82
MSD	85

Limits: 42-138

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/25/11 at 04:47 PM

Group Number: 1225274

Surrogate Quality Control

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103550026A
n-Triacontane-d62

6163869	91
6163870	92
6163871	91
6163872	91
6163873	93
6163876	92
6163877	102
6163880	92
6163884	94
6163885	94
6163886	94
Blank	97
LCS	94
MS	91
MSD	93

Limits: 50-150

*- Outside of specification

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

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

13013/1225274/0103869-88

CHAIN OF CUSTODY RECORD

Amended COC

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING																					Other Instructions and Notes										
NOTES:																															
*Primary Analyses as indicated on sample labels																															
**Secondary Analyses as indicated on sample labels																															
Ⓢ For hex chrome analysis, lab will measure pH and ORP																															
Samplers: (Signature)																															
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260S1M	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7159Ⓢ	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Glycols EPA 8015B	**Alcohols EPA 8015B			
DUP04-SA5B-QC-121310	12.13.10	1015	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X												dup
DUP13-SA5C-QC-121310	12.13.10	1010	soil	none	3 x 4 oz. jars & 3 x 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X		dup
DUP13-SA5C-QC-121310	12.13.10	1010	soil	none	5 Encore Samplers	X	X		X																						dup
EB01-SA5B-121310	12.13.10	1215	water	none	6-1 liter amber			X					X	X				X	X												rinsate
EB01-SA5B-121310	12.13.10	1215	water	none	1-500 ml poly						X	X				X									X						rinsate
EB01-SA5B-121310	12.13.10	1215	water	HNO3	1-500 ml poly						X																				rinsate
EB01-SA5B-121310	12.13.10	1215	water	HCl	6-40 mL amber VOA vials	X	X																								rinsate
SED-029-SIV-SD-0.0-0.5	12.13.10	1152	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X												
SED-030-SIV-SD-0.0-0.5	12.13.10	1113	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X												
SED-031-SIV-SD-0.0-0.5	12.13.10	0920	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X												
SED-032-SIV-SD-0.0-0.5	12.13.10	1457	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X												
SED-033-SIV-SD-0.0-0.5	12.13.10	1540	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X												
SED-040-SIV-SD-0.0-0.5	12.13.10	1019	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X												
SL-001-SA5C-SB-4.0-5.0	12.13.10	1608	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	
SL-001-SA5C-SB-4.5	12.13.10	1604	soil	none	5 Encore Samplers	X	X		X																						
SL-001-SA5C-SB-9.0-10.0	12.13.10	1616	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	
SL-001-SA5C-SB-9.5	12.13.10	1612	soil	none	5 Encore Samplers	X	X		X																						
SL-003-SA5C-SB-4.0-5.0	12.13.10	1437	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	
SL-003-SA5C-SB-4.5	12.13.10	1433	soil	none	5 Encore Samplers	X	X		X																						
SL-006-SA5C-SB-4.0-5.0MS	12.13.10	0945	soil	none	8 x 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	MS sample
SL-006-SA5C-SB-4.0-5.0MS	12.13.10	0945	soil	none	4 x 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	MS sample
SL-006-SA5C-SB-4.5MS	12.13.10	0943	soil	none	15 Encore Samplers	X	X		X																						MS sample
SL-006-SA5C-SB-9.0-10.0	12.13.10	0955	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	
SL-006-SA5C-SB-9.5	12.13.10	0953	soil	none	5 Encore Samplers	X	X		X																						
SL-007-SA5B-SS-0.0-0.5	12.13.10	1004	soil	none	1 x 16 oz. jar & 1 6" sleeve			X			X	X	X	X	X	X		X	X												
SL-007-SA5C-SB-4.5	12.13.10	1200	soil	none	5 Encore Samplers	X	X		X																						

SL-007-SA5B-SS-NJM 1/5/11
 → SL-007-SA5C-SB-4.5 Updated per PB. NJM 1/5/11

13013

1225274

6163869-7988

Amo 12/14/10

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
 *Primary Analyses as indicated on sample labels
 **Secondary Analyses as indicated on sample labels
 @ For hex chrome analysis, lab will measure pH and ORP

[Handwritten Signature]
 Sampler: (Signature)

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers
SL-006-SASC-SB-9.0-10.0	12.13.10	0955	soil	none	3 x 4 oz. Jars & 3 16 oz. jars
DUP13-SASC-QC-121310	12.13.10	1010	soil	none	3 x 4 oz. Jars & 3 x 16 oz. jars
SL-006-SASC-SB-4.0-5.0MS	12.13.10	0945	soil	none	8 x 16 oz. jars
SL-006-SASC-SB-4.0-5.0MS	12.13.10	0945	soil	none	4 x 16 oz. jars
EB-15-SASB-121310	12.13.10	1215	water	none	6-1 liter amber
EB-15-SASB-121310	12.13.10	1215	water	none	1-500 ml poly
EB-15-SASB-121310	12.13.10	1215	water	HNO3	1-500 ml poly
EB-15-SASB-121310	12.13.10	1215	water	HCl	6-40 ml amber VOA vials
SL-006-SASC-SB-4.5MS	12.13.10	0943	soil	none	15 Encore Samplers
SL-006-SASC-SB-9.5	12.13.10	0953	soil	none	5 Encore Samplers
DUP13-SASC-QC-121310	12.13.10	1010	soil	none	5 Encore Samplers
SL-007-SASC-SB-9.5	12.13.10	1210	soil	none	5 Encore Samplers
SL-007-SASC-SB-4.0-5.0	12.13.10	1214	soil	none	3 x 4 oz. jars & 3 16 oz. Jars
SL-007-SASC-SB-9.0-10.0	12.13.10	1214	soil	none	3 x 4 oz. Jars & 3 16 oz. Jars
SL-075-SASB-SS-0.0-0.5	12.13.10	0903	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-007-SASB-SS-0.0-0.5	12.13.10	1004	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-007-SASB-SS-4.5	12.13.10	1200	soil	none	5 Encore Samplers
SL-078-SASB-SS-0.0-0.5	12.13.10	1110	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-084-SASB-SS-0.0-0.5	12.13.10	1046	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-076-SASB-SS-0.0-0.5	12.13.10	0928	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-071-SASB-SS-0.0-0.5MS	12.13.10	1009	soil	none	2 x 16 oz. jars & 2 6" sleeves
SL-139-SASB-SS-0.0-0.5	12.13.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-083-SASB-SS-0.0-0.5	12.13.10	1049	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-074-SASB-SS-0.0-0.5	12.13.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-301-SASB-SS-0.0-0.5	12.13.10	0900	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-073-SASB-SS-0.0-0.5	12.13.10	0930	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-072-SASB-SS-0.0-0.5	12.13.10	0948	soil	none	1 x 16 oz. jar & 1 6" sleeve
DUP04-SASB-QC-121310	12.13.10	1015	soil	none	1 x 16 oz. jar & 1 6" sleeve
SED-029-SIV-SD-0.0-0.5	12.13.10	1152	soil	none	1 x 16 oz. jar & 1 6" sleeve
SED-031-SIV-SD-0.0-0.5	12.13.10	0920	soil	none	1 x 16 oz. jar & 1 6" sleeve
SED-030-SIV-SD-0.0-0.5	12.13.10	1113	soil	none	1 x 16 oz. jar & 1 6" sleeve
SED-040-SIV-SD-0.0-0.5	12.13.10	1019	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-086-SASB-SS-0.0-0.5	12.13.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-092-SASB-SS-0.0-0.5	12.13.10	1327	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-103-SASB-SS-0.0-0.5	12.13.10	1425	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-089-SASB-SS-0.0-0.5	12.13.10	1410	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-236-SASB-SS-0.0-0.5	12.13.10	1310	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-085-SASB-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-085-SASB-SS-0.0-0.5	12.13.10	1335	soil	none	5 Encore Samplers
SL-085-SASB-SS-0.0-0.5	12.13.10	1335	soil	none	1 x 16 oz. jar
SL-087-SASB-SS-0.0-0.5	12.13.10	1317	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-095-SASB-SS-0.0-0.5	12.13.10	1440	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-091-SASB-SS-0.0-0.5	12.13.10	1510	soil	none	1 x 16 oz. jar & 1 6" sleeve
SL-003-SASC-SB-4.0-5.0	12.13.10	1437	soil	none	3 x 4 oz. Jars & 3 16 oz. Jars
SL-003-SASC-SB-4.5	12.13.10	1433	soil	none	5 Encore Samplers
SL-001-SASC-SB-4.0-5.0	12.13.10	1608	soil	none	3 x 4 oz. Jars & 3 16 oz. Jars
SL-001-SASC-SB-9.0-10.0	12.13.10	1616	soil	none	3 x 4 oz. Jars & 3 16 oz. Jars
SL-001-SASC-SB-4.5	12.13.10	1604	soil	none	5 Encore Samplers
SL-001-SASC-SB-9.5	12.13.10	1612	soil	none	5 Encore Samplers
SED-032-SIV-SD-0.0-0.5	12.13.10	1457	soil	none	1 x 16 oz. jar & 1 6" sleeve
SED-033-SIV-SD-0.0-0.5	12.13.10	1540	soil	none	1 x 16 oz. jar & 1 6" sleeve

VOQ/EPA 8260H	1,4-Dioxane EPA 8260H	SVOC EPA 8270C & PAH EPA 8270-8M	THA-GRO EPA 8015B	THA-EPI EPA 8015B Mod	*Hexis EPA 8010/8020/8271A	*Hex Chrome EPA 7159*	*Fluoride EPA 300.0	*PCB EPA 802	*Dieldrin EPA 8183	*Perchlorate EPA 314.0	Pesticide Confirmation by EPA 6850	*Pesticides EPA 8081A (airforce soil only)	*Herbicides EPA 8151 (airforce soil only)	*Nitrate EPA 800.0	**Formaldehyde EPA 8315A	**NOMIA EPA 1625C	**Emergencis EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Terphenyls EPA 8015B	**Chloride EPA 8015B	**Alcohols EPA 8015B
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Other Instructions and Notes

dup
MS sample
MS sample
rinstate
rinstate
rinstate
MS sample
dup
MS sample

Received by (Signature) *[Signature]* Date/Time 12/13/10 1630
 Received by (Signature) *[Signature]* Date/Time 12/14/10 1005
 APCL No. 00732992

Laboratory:
 Lancaster Laboratories, Inc.
 600665

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

January 19, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/15/2010
Group Number: 1225546
SDG: DE039
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-002-SA5C-SB-4.0-5.0 Soil	6164941
SL-002-SA5C-SB-9.0-10.0 Soil	6164942
TB-121410 Water	6164943
EB02-SA5B-121410 Water	6164944
SL-004-SA5C-SB-9.0-10.0 Soil	6164945
SL-004-SA5C-SB-4.0-5.0 Soil	6164946
SL-140-SA5C-SB-3.0-4.0 Soil	6164947
SED-024-SIV-SD-0.0-0.5 Sediment	6164948
SED-023-SIV-SD-0.0-0.5 Sediment	6164949
SED-022-SIV-SD-0.0-0.5 Sediment	6164950
SL-125-SA5B-SS-0.0-0.5 Soil	6164951
SL-126-SA5B-SS-0.0-0.5 Soil	6164952
SL-129-SA5B-SS-0.0-0.5 Soil	6164953
SL-128-SA5B-SS-0.0-0.5 Soil	6164954
SED-027-SIV-SD-0.0-0.5 Sediment	6164955
SED-026-SIV-SD-0.0-0.5 Sediment	6164956
SL-060-SA5C-SB-10.0-11.0 Soil	6164957

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

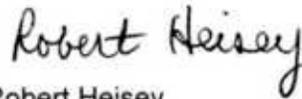
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Attn: Todd Burgesser

1 COPY TO Data Package Group

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

Respectfully Submitted,



Robert Heisey
Senior Specialist



Analysis Report

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

Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.1 U	7.1	8.5		0.99
06192	Benzene	71-43-2	0.11 U	0.11	4.2		0.99
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.2		0.99
06192	Bromochloromethane	74-97-5	0.35 U	0.35	4.2		0.99
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.2		0.99
06192	Bromoform	75-25-2	0.42 U	0.42	4.2		0.99
06192	Bromomethane	74-83-9	0.27 U	0.27	4.2		0.99
06192	2-Butanone	78-93-3	1.3 U	1.3	8.5		0.99
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.2		0.99
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.2		0.99
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.2		0.99
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.2		0.99
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.2		0.99
06192	Chloroethane	75-00-3	0.14 U	0.14	4.2		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.2		0.99
06192	Chloroform	67-66-3	0.13 U	0.13	4.2		0.99
06192	Chloromethane	74-87-3	0.35 U	0.35	4.2		0.99
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.2		0.99
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.2		0.99
06192	Chlorotrifluoroethene	79-38-9	0.53 U	0.53	5.3		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.74 U	0.74	4.2		0.99
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.2		0.99
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.2		0.99
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.2		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.2		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.2		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.2		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.2		0.99
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.2		0.99
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.2		0.99
06192	1,1-Dichloroethene	75-35-4	0.41 U	0.41	4.2		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.2		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.2		0.99
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.2		0.99
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.2		0.99
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.2		0.99
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.2		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.2		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.2		0.99
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.2		0.99
06192	Freon 113	76-13-1	0.12 U	0.12	4.2		0.99
06192	Freon 133a	75-88-7	0.53 U	0.53	5.3		0.99
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.2		0.99
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.5		0.99
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.2		0.99
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.2		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.2		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.41 U	0.41	8.5		0.99
06192	Methylene Chloride	75-09-2	1.2 J	0.25	4.2		0.99
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.2		0.99

*=This limit was used in the evaluation of the final result
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Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.2		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.2		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.2		0.99
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.2		0.99
06192	Toluene	108-88-3	0.11 J	0.09	4.2		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.2		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.2		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.2		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.2		0.99
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.2		0.99
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.2		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.35 U	0.35	4.2		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.42 U	0.42	4.2		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.2		0.99
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.2		0.99
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.2		0.99
06192	o-Xylene	95-47-6	0.18 U	0.18	4.2		0.99
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.2 U	5.2	15		24.22
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	112	17.8	35.5		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	530		1
04688	Benzidine	92-87-5	1,200	U 1,200	3,600		1
04688	Benzoic acid	65-85-0	180	U 180	530		1
04688	Benzyl alcohol	100-51-6	180	U 180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180		1
04688	4-Chloroaniline	106-47-8	71	U 71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U 710	2,100		1

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

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

Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U 71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	530		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	71	U 71	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	180	U 180	530		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U 0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8		1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.71	U 0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.71	U 0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.71	U 0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.71	U 0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U 0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.4	U 6.4	19		1
10138	Di-n-butylphthalate	84-74-2	6.4	U 6.4	19		1
10138	Chrysene	218-01-9	0.36	U 0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U 0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U 6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U 6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.4	U 6.4	19		1
10138	Fluoranthene	206-44-0	0.71	U 0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U 0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.71	U 0.71	1.8		1

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

Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	1-Methylnaphthalene	90-12-0	0.71 U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71 U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71 U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71 U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4 U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71 U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71 U	0.71	1.8		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC Volatiles	TPH GRO	SW-846 8015B mod	mg/kg	mg/kg	mg/kg	mg/kg
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1.0	24.61

Explosives	SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	80 U	80	160
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	53 U	53	160
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320
10132	1,3-Dinitrobenzene	99-65-0	53 U	53	160
10132	2,4-Dinitrotoluene	121-14-2	53 U	53	160
10132	2,6-Dinitrotoluene	606-20-2	53 U	53	160
10132	HMX	2691-41-0	130 U	130	400
10132	Nitrobenzene	98-95-3	53 U	53	160
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200
10132	2-Nitrotoluene	88-72-2	110 U	110	160
10132	3-Nitrotoluene	99-08-1	130 U	130	160
10132	4-Nitrotoluene	99-99-0	110 U	110	160
10132	PETN	78-11-5	1,100 U	1,100	3,200
10132	RDX	121-82-4	67 U	67	160
10132	Tetryl	479-45-8	82 U	82	160

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Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	53	U 53	160	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	53	U 53	160	1000000	1
HPLC Organics							
	SW-846 8315A		ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	640	U 640	1,600		1
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.5		1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.5		1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.5		1
10225	PCB-1016	12674-11-2	0.35	U 0.35	1.8		1
10225	PCB-1221	11104-28-2	0.53	U 0.53	1.8		1
10225	PCB-1232	11141-16-5	0.55	U 0.55	1.8		1
10225	PCB-1242	53469-21-9	0.53	U 0.53	1.8		1
10225	PCB-1248	12672-29-6	0.35	U 0.35	1.8		1
10225	PCB-1254	11097-69-1	0.35	U 0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35	U 0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35	U 0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35	U 0.35	1.8		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

GC Extractable TPH	SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg
10199	EFH (C12-C14)	n.a.	0.43	U 0.43	1.3
10199	EFH (C15-C20)	n.a.	0.43	U 0.43	1.3
10199	EFH (C21-C30)	n.a.	0.59	J 0.43	1.3
10199	EFH (C30 - C40)	n.a.	0.74	J 0.43	1.3
10199	EFH (C8-C11)	n.a.	0.43	U 0.43	1.3

The beginning CCV was outside method criteria. Due to limited extract volume a re-analysis could not be performed; therefore, the data is reported.

GC Miscellaneous	SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg
10501	Ethanol	64-17-5	110	U 110	530
10501	Isopropanol	67-63-0	110	U 110	530
10501	Methanol	67-56-1	130	J 110	530

GC Miscellaneous	SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg
08283	Diethylene glycol	111-46-6	5.3	U 5.3	13
08283	Ethylene glycol	107-21-1	5.3	U 5.3	13
08283	Propylene glycol	57-55-6	5.3	U 5.3	13

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Terphenyls	SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg
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*—This limit was used in the evaluation of the final result
 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls		SW-846 8015B	mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.6	U	1.6	3.7		1
10318	o-Terphenyl	84-15-1	1.6	U	1.6	3.7		1
10318	p-Terphenyl	92-94-4	1.6	U	1.6	3.7		1
Metals		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,500		5.31	21.1		1
07914	Boron	7440-42-8	2.97	J	0.939	5.28		1
01650	Calcium	7440-70-2	3,200		6.47	21.1		1
01654	Iron	7439-89-6	19,800		4.97	21.1		1
01656	Lithium	7439-93-2	22.8		0.23	2.1		1
01657	Magnesium	7439-95-4	3,970		2.68	10.6		1
06958	Manganese	7439-96-5	315		0.0823	0.528		1
10145	Phosphorus	7723-14-0	330		0.591	10.6		1
01662	Potassium	7440-09-7	2,520		19.0	52.8		1
01667	Sodium	7440-23-5	95.4	J	39.4	106		1
07968	Strontium	7440-24-6	12.3		0.0654	0.528		1
06969	Tin	7440-31-5	2.76	J	1.06	10.6		1
06970	Titanium	7440-32-6	1,220		0.401	1.06		1
10146	Zirconium	7440-67-7	0.887	U	0.887	5.28		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.160	J	0.0633	0.211		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.								
06125	Arsenic	7440-38-2	5.59		0.0633	0.422		2
06126	Barium	7440-39-3	63.6		0.114	0.422		2
06127	Beryllium	7440-41-7	0.531		0.0169	0.106		2
06128	Cadmium	7440-43-9	0.0891	J	0.0380	0.106		2
06131	Chromium	7440-47-3	14.1		0.127	0.422		2
06132	Cobalt	7440-48-4	5.63		0.0211	0.106		2
06133	Copper	7440-50-8	5.77		0.0697	0.422		2
06135	Lead	7439-92-1	4.71		0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.470		0.0528	0.106		2
06139	Nickel	7440-02-0	8.46		0.106	0.422		2
06141	Selenium	7782-49-2	0.101	J	0.0422	0.422		2
06142	Silver	7440-22-4	0.0148	J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.356		0.0317	0.106		2
06148	Vanadium	7440-62-2	29.5		0.0232	0.106		2
06149	Zinc	7440-66-6	59.4		0.591	3.17		2
		SW-846 7471A	mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031	U	0.0031	0.106		1
Wet Chemistry		EPA 300.0	mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85	U	0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.8		0.85	1.6		1

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

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



Analysis Report

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

Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3901 SDG#: DE039-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	ug/kg	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.32 J	0.21	mg/kg	mg/kg	1
SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	mg/kg	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	459	10.0	mV	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	8.45	0.0100	Std. Units	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	6.2	0.50	%	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-002-SA5C-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 19:47	Laura M Krieger	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 12:01	Jason M Long	24.22
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:22	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034923319	12/15/2010 22:20	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011 18:08	Timothy J Trees	1

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

Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3901 SDG#: DE039-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 11:27	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 18:06	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 13:36	Elizabeth J Marin	24.61
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:19	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 09:33	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 00:43	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 21:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 12:25	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/20/2010 23:35	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 20:36	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/23/2010 22:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 18:48	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2

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

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

Sample Description: SL-002-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-4.0-5.0

LLI Sample # SW 6164941
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:42

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3901 SDG#: DE039-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 11:59	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 11:59	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/28/2010 17:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 11:59	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/07/2011 23:59	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007201A	01/07/2011 23:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 14:47	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 12:14	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:23	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402B	12/31/2010 05:26	William C Schwebel	1

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



Analysis Report

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

Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	34	6.9	8.3		0.86
06192	Benzene	71-43-2	0.10 U	0.10	4.1		0.86
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1		0.86
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1		0.86
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1		0.86
06192	Bromoform	75-25-2	0.41 U	0.41	4.1		0.86
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1		0.86
06192	2-Butanone	78-93-3	5.6 J	1.3	8.3		0.86
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1		0.86
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1		0.86
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.1		0.86
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1		0.86
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1		0.86
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1		0.86
06192	Chloroform	67-66-3	0.12 U	0.12	4.1		0.86
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1		0.86
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1		0.86
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1		0.86
06192	Chlorotrifluoroethene	79-38-9	0.52 U	0.52	5.2		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72 U	0.72	4.1		0.86
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.1		0.86
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.1		0.86
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.1		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1		0.86
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1		0.86
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.1		0.86
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.1		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1		0.86
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.1		0.86
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1		0.86
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.1		0.86
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.1		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.1		0.86
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1		0.86
06192	Freon 113	76-13-1	0.11 U	0.11	4.1		0.86
06192	Freon 133a	75-88-7	0.52 U	0.52	5.2		0.86
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1		0.86
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.3		0.86
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1		0.86
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.1		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.3		0.86
06192	Methylene Chloride	75-09-2	0.88 J	0.25	4.1		0.86
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1		0.86

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

Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B							
06192	Styrene	100-42-5	0.10 U	0.10	4.1		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1		0.86
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.1		0.86
06192	Toluene	108-88-3	0.09 J	0.08	4.1		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.1		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.1		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1		0.86
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.1		0.86
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1		0.86
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.1		0.86
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.1		0.86
06192	o-Xylene	95-47-6	0.18 U	0.18	4.1		0.86
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	5.0 U	5.0	15		20.83
GC/MS Semivolatiles EPA 1625C							
11622	N-Nitrosodimethylamine	62-75-9	161	40.0	80.0		2
GC/MS Semivolatiles SW-846 8270C							
04688	Aniline	62-53-3	200	U 200	600		1
04688	Benzidine	92-87-5	1,400	U 1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U 200	600		1
04688	Benzyl alcohol	100-51-6	200	U 200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U 20	200		1
04688	Carbazole	86-74-8	20	U 20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U 40	200		1
04688	4-Chloroaniline	106-47-8	80	U 80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U 20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U 20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U 20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U 20	200		1
04688	2-Chlorophenol	95-57-8	20	U 20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U 40	200		1
04688	Dibenzofuran	132-64-9	20	U 20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U 20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U 20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U 20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U 20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U 40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U 40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U 200	600		1
04688	2,4-Dinitrophenol	51-28-5	800	U 800	2,400		1

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

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

Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U 40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U 20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U 20	200		1
04688	Hexachlorobenzene	118-74-1	20	U 20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U 80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U 200	600		1
04688	Hexachloroethane	67-72-1	20	U 20	200		1
04688	Isophorone	78-59-1	20	U 20	200		1
04688	2-Methylphenol	95-48-7	40	U 40	200		1
04688	4-Methylphenol	106-44-5	40	U 40	200		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U 20	200		1
04688	3-Nitroaniline	99-09-2	40	U 40	200		1
04688	4-Nitroaniline	100-01-6	80	U 80	200		1
04688	Nitrobenzene	98-95-3	20	U 20	200		1
04688	2-Nitrophenol	88-75-5	20	U 20	200		1
04688	4-Nitrophenol	100-02-7	200	U 200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U 20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U 20	200		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U 200	600		1
04688	Phenol	108-95-2	20	U 20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U 20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U 40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U 40	200		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U 0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U 0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U 0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U 0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U 0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U 0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U 0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U 0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U 7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U 7.2	22		1
10138	Chrysene	218-01-9	0.41	J 0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U 0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U 7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U 7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	U 7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U 0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U 0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U 0.80	2.0		1

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

Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	1-Methylnaphthalene	90-12-0	0.80 U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80 U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80 U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80 U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2 U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80 U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80 U	0.80	2.0		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC Volatiles	TPH GRO	SW-846 8015B mod	mg/kg	mg/kg	mg/kg	mg/kg
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1.1	22.4

Explosives	SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	90 U	90	180
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60 U	60	180
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120 U	120	360
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120 U	120	360
10132	1,3-Dinitrobenzene	99-65-0	60 U	60	180
10132	2,4-Dinitrotoluene	121-14-2	60 U	60	180
10132	2,6-Dinitrotoluene	606-20-2	60 U	60	180
10132	HMX	2691-41-0	150 U	150	450
10132	Nitrobenzene	98-95-3	60 U	60	180
10132	Nitroglycerin	55-63-0	1,200 U	1,200	3,600
10132	2-Nitrotoluene	88-72-2	120 U	120	180
10132	3-Nitrotoluene	99-08-1	150 U	150	180
10132	4-Nitrotoluene	99-99-0	120 U	120	180
10132	PETN	78-11-5	1,200 U	1,200	3,600
10132	RDX	121-82-4	75 U	75	180
10132	Tetryl	479-45-8	92 U	92	180

*—This limit was used in the evaluation of the final result
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Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	60	U 60	180	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U 60	180	1000000	1
HPLC Organics							
	SW-846 8315A		ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	3,800	720	1,800		1
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U 1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U 1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U 1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U 0.40	2.0		1
10225	PCB-1221	11104-28-2	0.60	U 0.60	2.0		1
10225	PCB-1232	11141-16-5	0.62	U 0.62	2.0		1
10225	PCB-1242	53469-21-9	0.60	U 0.60	2.0		1
10225	PCB-1248	12672-29-6	0.40	U 0.40	2.0		1
10225	PCB-1254	11097-69-1	0.40	U 0.40	2.0		1
10225	PCB-1260	11096-82-5	0.40	U 0.40	2.0		1
10225	PCB-1262	37324-23-5	0.40	U 0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U 0.40	2.0		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.48	U 0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U 0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.96	J 0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	2.0	U 0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U 0.48	1.4		1
The beginning CCV was outside method criteria. Due to limited extract volume a re-analysis could not be performed; therefore, the data is reported.							
GC Miscellaneous							
	SW-846 8015B		ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U 120	600		1
10501	Isopropanol	67-63-0	120	U 120	600		1
10501	Methanol	67-56-1	690	120	600		1
GC Miscellaneous							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	6.0	U 6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U 6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U 6.0	15		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls							
	SW-846 8015B		mg/kg	mg/kg	mg/kg	mg/kg	

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

Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	2.7 U	2.7	6.3		1
10318	o-Terphenyl	84-15-1	2.7 U	2.7	6.3		1
10318	p-Terphenyl	92-94-4	2.7 U	2.7	6.3		1
Reporting limits were raised due to limited sample volume.							
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	32,300	5.81	23.1		1
07914	Boron	7440-42-8	5.03 J	1.03	5.77		1
01650	Calcium	7440-70-2	24,300	7.08	23.1		1
01654	Iron	7439-89-6	35,300	10.9	46.2		2
01656	Lithium	7439-93-2	27.6	0.25	2.3		1
01657	Magnesium	7439-95-4	8,070	2.93	11.5		1
06958	Manganese	7439-96-5	429	0.0900	0.577		1
10145	Phosphorus	7723-14-0	421	0.646	11.5		1
01662	Potassium	7440-09-7	3,910	20.8	57.7		1
01667	Sodium	7440-23-5	264	43.1	115		1
07968	Strontium	7440-24-6	45.5	0.0716	0.577		1
06969	Tin	7440-31-5	3.01 J	1.15	11.5		1
06970	Titanium	7440-32-6	1,550	0.439	1.15		1
10146	Zirconium	7440-67-7	5.23 J	0.970	5.77		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.340	0.0706	0.235		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.72	0.0706	0.471		2
06126	Barium	7440-39-3	160	0.127	0.471		2
06127	Beryllium	7440-41-7	0.902	0.0188	0.118		2
06128	Cadmium	7440-43-9	0.454	0.0424	0.118		2
06131	Chromium	7440-47-3	41.1	0.141	0.471		2
06132	Cobalt	7440-48-4	9.79	0.0235	0.118		2
06133	Copper	7440-50-8	16.7	0.0777	0.471		2
06135	Lead	7439-92-1	13.1	0.0122	0.235		2
06138	Molybdenum	7439-98-7	0.624	0.0588	0.118		2
06139	Nickel	7440-02-0	19.9	0.118	0.471		2
06141	Selenium	7782-49-2	0.186 J	0.0471	0.471		2
06142	Silver	7440-22-4	0.0442 J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.381	0.0353	0.118		2
06148	Vanadium	7440-62-2	76.0	0.0259	0.118		2
06149	Zinc	7440-66-6	80.0	0.659	3.53		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0046 J	0.0034	0.119		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.7	0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.1 J	0.96	1.8		1

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



Analysis Report

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

Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50
 Submitted: 12/15/2010 09:40
 Reported: 01/19/2011 11:07

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

E3902 SDG#: DE039-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8 U	10.8 ug/kg	36.0 ug/kg	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.51 J	0.24 mg/kg	1.2 mg/kg	mg/kg	1
SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.23 U	0.23 mg/kg	0.63 mg/kg	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	446	10.0 mV	10.0 mV	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	7.77	0.0100 Std. Units	0.0100 Std. Units	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	16.7	0.50 %	0.50 %	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-002-SA5C-SB-9.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 20:09	Laura M Krieger	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 12:21	Jason M Long	20.83
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:27	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034923319	12/15/2010 22:25	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/14/2011 13:54	Timothy J Trees	2

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

Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3902 SDG#: DE039-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 13:11	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 19:50	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 14:12	Elizabeth J Marin	22.4
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:24	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 10:15	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 00:53	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 21:31	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 12:50	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/21/2010 00:04	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 19:48	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/23/2010 23:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 20:43	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:10	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2

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

Sample Description: SL-002-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-002-SA5C-SB-9.0-10.0

LLI Sample # SW 6164942
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:50

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3902 SDG#: DE039-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 13:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 13:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 13:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 13:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:11	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 00:42	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007201A	01/08/2011 00:42	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 15:59	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11001243201A	01/04/2011 13:58	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010 20:24	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

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



Analysis Report

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

Sample Description: TB-121410 Water
 SSFL Area IV Collocated Soil Sampling
 TB-121410

LLI Sample # WW 6164943
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 08:00

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3903 SDG#: DE039-03TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles							
00527	1,4-Dioxane	SW-846 8260B SIM 123-91-1	0.5 U	ug/l 0.5	ug/l 2.0	ug/l	1
GC Volatiles							
08229	TPH-GRO S.CA water C5-C12	TPH GRO SW-8015B n.a.	20 U	ug/l 20	ug/l 50	ug/l	1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00527	14b 1,4-Dioxane by SIM	SW-846 8260B SIM	1	E103502AA	12/16/2010 19:32	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103502AA	12/16/2010 19:32	Sara E Johnson	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10350A94A	12/17/2010 17:00	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	10350A94A	12/17/2010 17:00	Katrina T Longenecker	1

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

Sample Description: EB02-SA5B-121410 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3904 SDG#: DE039-04EB

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

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

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

Sample Description: EB02-SA5B-121410 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3904 SDG#: DE039-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2 U	2	5		1
10904	n-Propylbenzene	103-65-1	1 U	1	5		1
10904	Styrene	100-42-5	1 U	1	5		1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1 U	1	5		1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1 U	1	5		1
10904	Tetrachloroethene	127-18-4	0.8 U	0.8	5		1
10904	Toluene	108-88-3	0.7 U	0.7	5		1
10904	1,2,3-Trichlorobenzene	87-61-6	1 U	1	5		1
10904	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5		1
10904	1,1,1-Trichloroethane	71-55-6	0.8 U	0.8	5		1
10904	1,1,2-Trichloroethane	79-00-5	0.8 U	0.8	5		1
10904	Trichloroethene	79-01-6	1 U	1	5		1
10904	Trichlorofluoromethane	75-69-4	2 U	2	5		1
10904	1,2,3-Trichloropropane	96-18-4	1 U	1	5		1
10904	1,2,4-Trimethylbenzene	95-63-6	1 U	1	5		1
10904	1,3,5-Trimethylbenzene	108-67-8	1 U	1	5		1
10904	Vinyl Chloride	75-01-4	1 U	1	5		1
10904	m+p-Xylene	179601-23-1	0.8 U	0.8	5		1
10904	o-Xylene	95-47-6	0.8 U	0.8	5		1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l	ug/l	ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5 U	0.5	2.0		1
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1 U	1	5		1
04678	Benzidine	92-87-5	20 U	20	60		1
04678	Benzoic acid	65-85-0	6 U	6	15		1
04678	Benzyl alcohol	100-51-6	5 U	5	15		1
04678	4-Bromophenyl-phenylether	101-55-3	1 U	1	5		1
04678	Carbazole	86-74-8	1 U	1	5		1
04678	4-Chloro-3-methylphenol	59-50-7	1 U	1	5		1
04678	4-Chloroaniline	106-47-8	1 U	1	5		1
04678	bis(2-Chloroethoxy)methane	111-91-1	1 U	1	5		1
04678	bis(2-Chloroethyl)ether	111-44-4	1 U	1	5		1
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1 U	1	5		1
04678	2-Chloronaphthalene	91-58-7	2 U	2	5		1
04678	2-Chlorophenol	95-57-8	1 U	1	5		1
04678	4-Chlorophenyl-phenylether	7005-72-3	2 U	2	5		1
04678	Dibenzofuran	132-64-9	1 U	1	5		1
04678	1,2-Dichlorobenzene	95-50-1	1 U	1	5		1
04678	1,3-Dichlorobenzene	541-73-1	1 U	1	5		1
04678	1,4-Dichlorobenzene	106-46-7	1 U	1	5		1
04678	3,3'-Dichlorobenzidine	91-94-1	2 U	2	5		1
04678	2,4-Dichlorophenol	120-83-2	1 U	1	5		1
04678	2,4-Dimethylphenol	105-67-9	3 U	3	10		1
04678	3,5-Dimethylphenol	108-68-9	3 U	3	10		1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5 U	5	15		1
04678	2,4-Dinitrophenol	51-28-5	10 U	10	30		1
04678	2,4-Dinitrotoluene	121-14-2	1 U	1	5		1

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

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

Sample Description: EB02-SA5B-121410 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3904 SDG#: DE039-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	ug/l	ug/l	
04678	2,6-Dinitrotoluene	606-20-2	1 U	1	5			1
04678	1,2-Diphenylhydrazine	122-66-7	1 U	1	5			1
04678	Hexachlorobenzene	118-74-1	1 U	1	5			1
04678	Hexachlorobutadiene	87-68-3	1 U	1	5			1
04678	Hexachlorocyclopentadiene	77-47-4	5 U	5	15			1
04678	Hexachloroethane	67-72-1	1 U	1	5			1
04678	Isophorone	78-59-1	1 U	1	5			1
04678	2-Methylphenol	95-48-7	1 U	1	5			1
04678	4-Methylphenol	106-44-5	2 U	2	5			1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.								
04678	2-Nitroaniline	88-74-4	1 U	1	5			1
04678	3-Nitroaniline	99-09-2	1 U	1	5			1
04678	4-Nitroaniline	100-01-6	1 U	1	5			1
04678	Nitrobenzene	98-95-3	1 U	1	5			1
04678	2-Nitrophenol	88-75-5	1 U	1	5			1
04678	4-Nitrophenol	100-02-7	10 U	10	30			1
04678	N-Nitroso-di-n-propylamine	621-64-7	1 U	1	5			1
04678	N-Nitrosodiphenylamine	86-30-6	2 U	2	5			1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.								
04678	Pentachlorophenol	87-86-5	3 U	3	15			1
04678	Phenol	108-95-2	1 U	1	5			1
04678	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5			1
04678	2,4,5-Trichlorophenol	95-95-4	1 U	1	5			1
04678	2,4,6-Trichlorophenol	88-06-2	1 U	1	5			1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010 U	0.010	0.052			1
10137	Acenaphthylene	208-96-8	0.010 U	0.010	0.052			1
10137	Anthracene	120-12-7	0.010 U	0.010	0.052			1
10137	Benzo(a)anthracene	56-55-3	0.010 U	0.010	0.052			1
10137	Benzo(a)pyrene	50-32-8	0.010 U	0.010	0.052			1
10137	Benzo(b)fluoranthene	205-99-2	0.010 U	0.010	0.052			1
10137	Benzo(g,h,i)perylene	191-24-2	0.010 U	0.010	0.052			1
10137	Benzo(k)fluoranthene	207-08-9	0.010 U	0.010	0.052			1
10137	Butylbenzylphthalate	85-68-7	0.060 J	0.052	1.0			1
10137	Di-n-butylphthalate	84-74-2	0.15 J	0.052	1.0			1
10137	Chrysene	218-01-9	0.010 U	0.010	0.052			1
10137	Dibenz(a,h)anthracene	53-70-3	0.010 U	0.010	0.052			1
10137	Diethylphthalate	84-66-2	0.12 J	0.052	1.0			1
10137	Dimethylphthalate	131-11-3	0.052 U	0.052	1.0			1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.16 J	0.052	1.0			1
10137	Fluoranthene	206-44-0	0.010 U	0.010	0.052			1
10137	Fluorene	86-73-7	0.010 U	0.010	0.052			1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010 U	0.010	0.052			1
10137	1-Methylnaphthalene	90-12-0	0.010 U	0.010	0.052			1

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Sample Description: EB02-SA5B-121410 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3904 SDG#: DE039-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10137	2-Methylnaphthalene	91-57-6	0.010 U	0.010	0.052		1
10137	Naphthalene	91-20-3	0.027 J	0.010	0.052		1
10137	N-Nitrosodimethylamine	62-75-9	0.010 U	0.010	0.052		1
10137	Di-n-octylphthalate	117-84-0	0.083 J	0.052	1.0		1
10137	Phenanthrene	85-01-8	0.010 U	0.010	0.052		1
10137	Pyrene	129-00-0	0.010 U	0.010	0.052		1
Butylbenzylphthalate was detected in the method blank at a concentration of .055 ug/l. The blank value was not subtracted from the analytical result.							
The recoveries of several compounds were outside of QC limits in the LCS/LCSD associated with this sample. Sufficient sample was unavailable to repeat the analysis.							
GC Volatiles TPH GRO SW-8015B							
08229	TPH-GRO S.CA water C5-C12	n.a.	20 U	20	50		1
Herbicides SW-846 8151A							
10407	2,4-D	94-75-7	0.16 U	0.16	0.49		1
10407	Dalapon	75-99-0	0.24 U	0.24	1.2		1
10407	2,4-DB	94-82-6	0.29 U	0.29	0.97		1
10407	Dicamba	1918-00-9	0.078 U	0.078	0.29		1
10407	Dinoseb	88-85-7	0.097 U	0.097	0.49		1
10407	2,4-DP (Dichlorprop)	120-36-5	0.16 U	0.16	0.49		1
10407	MCPA	94-74-6	290 U	290	970		1
10407	MCPP	93-65-2	49 U	49	190		1
10407	2,4,5-T	93-76-5	0.015 U	0.015	0.049		1
10407	2,4,5-TP	93-72-1	0.0097 U	0.0097	0.049		1
Pesticides/PCBs SW-846 8081A							
00177	Aldrin	309-00-2	0.0019 U	0.0019	0.0096		1
00177	Alpha BHC	319-84-6	0.0029 U	0.0029	0.0096		1
00177	Beta BHC	319-85-7	0.0028 U	0.0028	0.0096		1
00177	Gamma BHC - Lindane	58-89-9	0.0019 U	0.0019	0.0096		1
00177	Chlordane	57-74-9	0.12 U	0.12	0.48		1
00177	p,p-DDD	72-54-8	0.0048 U	0.0048	0.019		1
00177	p,p-DDE	72-55-9	0.0048 U	0.0048	0.019		1
00177	p,p-DDT	50-29-3	0.0048 U	0.0048	0.019		1
00177	Delta BHC	319-86-8	0.0028 U	0.0028	0.0096		1
00177	Dieldrin	60-57-1	0.0051 U	0.0051	0.019		1
00177	Endosulfan I	959-98-8	0.0041 U	0.0041	0.0096		1
00177	Endosulfan II	33213-65-9	0.014 U	0.014	0.019		1
00177	Endosulfan Sulfate	1031-07-8	0.0056 U	0.0056	0.019		1
00177	Endrin	72-20-8	0.0078 U	0.0078	0.019		1
00177	Endrin Aldehyde	7421-93-4	0.019 U	0.019	0.096		1
00177	Endrin Ketone	53494-70-5	0.0048 U	0.0048	0.019		1
00177	Heptachlor	76-44-8	0.0025 U	0.0025	0.0096		1
00177	Heptachlor Epoxide	1024-57-3	0.0022 U	0.0022	0.0096		1
00177	Methoxychlor	72-43-5	0.029 U	0.029	0.096		1
00177	Mirex	2385-85-5	0.081 U	0.081	0.24		1

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Sample Description: EB02-SA5B-121410 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3904 SDG#: DE039-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs SW-846 8081A							
00177	Toxaphene	8001-35-2	0.96 U	0.96	2.9	ug/l	1
Pesticides/PCBs SW-846 8082							
10227	Aroclor 5432	63496-31-1	0.096 U	0.096	0.48	ug/l	1
10227	Aroclor 5442	12642-23-8	0.096 U	0.096	0.48	ug/l	1
10227	Aroclor 5460	11126-42-4	0.096 U	0.096	0.48	ug/l	1
10227	PCB-1016	12674-11-2	0.096 U	0.096	0.48	ug/l	1
10227	PCB-1221	11104-28-2	0.096 U	0.096	0.48	ug/l	1
10227	PCB-1232	11141-16-5	0.19 U	0.19	0.48	ug/l	1
10227	PCB-1242	53469-21-9	0.096 U	0.096	0.48	ug/l	1
10227	PCB-1248	12672-29-6	0.096 U	0.096	0.48	ug/l	1
10227	PCB-1254	11097-69-1	0.096 U	0.096	0.48	ug/l	1
10227	PCB-1260	11096-82-5	0.096 U	0.096	0.48	ug/l	1
10227	PCB-1262	37324-23-5	0.19 U	0.19	0.48	ug/l	1
10227	PCB-1268	11100-14-4	0.15 U	0.15	0.48	ug/l	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals SW-846 6010B		mg/l	mg/l	mg/l	mg/l
01743	Aluminum	7429-90-5	0.0834 U	0.0834	0.200
08014	Boron	7440-42-8	0.0138 U	0.0138	0.0500
01750	Calcium	7440-70-2	0.0702 U	0.0702	0.200
01754	Iron	7439-89-6	0.0533 J	0.0522	0.200
01756	Lithium	7439-93-2	0.0024 U	0.0024	0.0200
01757	Magnesium	7439-95-4	0.0172 U	0.0172	0.100
07058	Manganese	7439-96-5	0.00084 U	0.00084	0.0050
10143	Phosphorus	7723-14-0	0.0089 U	0.0089	0.100
01762	Potassium	7440-09-7	0.239 U	0.239	0.500
01767	Sodium	7440-23-5	0.433 U	0.433	1.00
08068	Strontium	7440-24-6	0.00089 U	0.00089	0.0050
07069	Tin	7440-31-5	0.0098 U	0.0098	0.0200
07070	Titanium	7440-32-6	0.0038 U	0.0038	0.0100
10144	Zirconium	7440-67-7	0.0206 U	0.0206	0.0500
SW-846 6020		mg/l	mg/l	mg/l	mg/l
06024	Antimony	7440-36-0	0.00030 U	0.00030	0.0010
06025	Arsenic	7440-38-2	0.00095 U	0.00095	0.0020
06026	Barium	7440-39-3	0.00038 U	0.00038	0.0020
06027	Beryllium	7440-41-7	0.00013 U	0.00013	0.00050
06028	Cadmium	7440-43-9	0.00020 U	0.00020	0.00050
06031	Chromium	7440-47-3	0.00060 U	0.00060	0.0020
06032	Cobalt	7440-48-4	0.00010 U	0.00010	0.00050
06033	Copper	7440-50-8	0.00038 U	0.00038	0.0020
06035	Lead	7439-92-1	0.000075 J	0.000052	0.0010
06038	Molybdenum	7439-98-7	0.00032 J	0.00025	0.00050
06039	Nickel	7440-02-0	0.00050 U	0.00050	0.0020
06041	Selenium	7782-49-2	0.00025 U	0.00025	0.0020
06042	Silver	7440-22-4	0.000080 U	0.000080	0.00050
06045	Thallium	7440-28-0	0.00015 U	0.00015	0.00050

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

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Analysis Report

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

Sample Description: EB02-SA5B-121410 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3904 SDG#: DE039-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6020		mg/l	mg/l	mg/l	mg/l	
06048	Vanadium	7440-62-2	0.00016 U	0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0040 U	0.0040	0.0150		1
	SW-846 7470A		mg/l	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000050 U	0.000050	0.00020		1
Wet Chemistry							
	EPA 300.0		mg/l	mg/l	mg/l	mg/l	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U	0.080	0.10		1
	EPA 314.0		ug/l	ug/l	ug/l	ug/l	
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	2.0		1
	SW-846 7199		ug/l	ug/l	ug/l	ug/l	
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	10.0		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y103512AA	12/18/2010 00:25	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103502AA	12/16/2010 19:52	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103502AA	12/16/2010 19:52	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103512AA	12/18/2010 00:25	Frank A Valla, Jr	1
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	10350WAB026	12/31/2010 23:03	Ryan P Byrne	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10350WAH026	01/04/2011 16:23	Gregory J Drahovsky	1
00813	BNA Water Extraction	SW-846 3510C	1	10350WAB026	12/16/2010 14:50	Timothy J Attenberger	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10350WAH026	12/17/2010 10:00	Olivia Arosemena	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	10350A94A	12/17/2010 17:27	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	10350A94A	12/17/2010 17:27	Katrina T Longenecker	1
10407	13b Herbicides by EPA 8151	SW-846 8151A	1	103500036A	12/20/2010 00:47	John W Perkins	1
00177	12b Pesticides by 8081A	SW-846 8081A	1	103500016A	12/24/2010 11:27	Lisa A Reinert	1

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Sample Description: EB02-SA5B-121410 Water
SSFL Area IV Collocated Soil Sampling
EB02-SA5B-121410

LLI Sample # WW 6164944
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 12:30

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3904 SDG#: DE039-04EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	103500017A	12/22/2010 09:42	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	103500017A	12/16/2010 21:25	Karen L Beyer	1
11118	Pesticide Screen Waters Ext	SW-846 3510C	1	103500016A	12/16/2010 21:25	Karen L Beyer	1
00816	Water Sample Herbicide Extract	SW-846 8151A	1	103500036A	12/17/2010 12:30	Olivia I Santiago	1
01743	Aluminum	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
08014	Boron	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
01750	Calcium	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
01754	Iron	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
01756	Lithium	SW-846 6010B	1	103551848003	12/23/2010 17:02	John P Hook	1
01757	Magnesium	SW-846 6010B	1	103551848003	12/23/2010 17:02	John P Hook	1
07058	Manganese	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
10143	Phosphorus	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
01762	Potassium	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
01767	Sodium	SW-846 6010B	1	103551848003	12/23/2010 17:02	John P Hook	1
08068	Strontium	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
07069	Tin	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
07070	Titanium	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
10144	Zirconium	SW-846 6010B	1	103551848003	12/23/2010 00:13	John W Yanzuk II	1
06024	Antimony	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06026	Barium	SW-846 6020	1	103556050002D	12/23/2010 20:21	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06033	Copper	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06035	Lead	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	103556050002C	12/23/2010 20:21	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	103556050002B	12/23/2010 20:21	Choon Y Tian	1
06042	Silver	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	103556050002A	12/23/2010 20:21	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103545713001	12/21/2010 06:27	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103551848003	12/22/2010 09:26	Denise K Connors	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103556050002	12/22/2010 08:48	Denise K Connors	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103545713001	12/20/2010 13:45	Damary Valentin	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	10350196902A	12/17/2010 07:59	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	10352658701A	12/18/2010 15:23	Venia B McFadden	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	10349113001A	12/15/2010 11:31	Nicole M Kepley	1

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

Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	22	6.5	7.7		0.8
06192	Benzene	71-43-2	0.1 U	0.1	3.9		0.8
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9		0.8
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9		0.8
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9		0.8
06192	Bromoform	75-25-2	0.39 U	0.39	3.9		0.8
06192	Bromomethane	74-83-9	0.24 U	0.24	3.9		0.8
06192	2-Butanone	78-93-3	3.4 J	1.2	7.7		0.8
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9		0.8
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9		0.8
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9		0.8
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9		0.8
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9		0.8
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9		0.8
06192	Chloroform	67-66-3	0.12 U	0.12	3.9		0.8
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9		0.8
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9		0.8
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9		0.8
06192	Chlorotrifluoroethene	79-38-9	0.48 U	0.48	4.8		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68 U	0.68	3.9		0.8
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.9		0.8
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.9		0.8
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.9		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9		0.8
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9		0.8
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9		0.8
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9		0.8
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.9		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9		0.8
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.9		0.8
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9		0.8
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.9		0.8
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.9		0.8
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9		0.8
06192	Freon 113	76-13-1	0.11 U	0.11	3.9		0.8
06192	Freon 133a	75-88-7	0.48 U	0.48	4.8		0.8
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9		0.8
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.7		0.8
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9		0.8
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20 U	0.20	3.9		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.7		0.8
06192	Methylene Chloride	75-09-2	1.1 J	0.23	3.9		0.8
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9		0.8

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Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B							
06192	Styrene	100-42-5	0.1 U	0.1	3.9		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.9		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22	3.9		0.8
06192	Tetrachloroethene	127-18-4	0.19 U	0.19	3.9		0.8
06192	Toluene	108-88-3	0.08 J	0.08	3.9		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	3.9		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17	3.9		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	3.9		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.9		0.8
06192	Trichloroethene	79-01-6	0.15 U	0.15	3.9		0.8
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28	3.9		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.9		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39	3.9		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.9		0.8
06192	Vinyl Chloride	75-01-4	0.19 U	0.19	3.9		0.8
06192	m+p-Xylene	179601-23-1	0.16 U	0.16	3.9		0.8
06192	o-Xylene	95-47-6	0.16 U	0.16	3.9		0.8
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	4.7 U	4.7	14		19.47
GC/MS Semivolatiles EPA 1625C							
11622	N-Nitrosodimethylamine	62-75-9	80.4	20.0	40.1		1
GC/MS Semivolatiles SW-846 8270C							
04688	Aniline	62-53-3	200	U 200	600		1
04688	Benzidine	92-87-5	1,400	U 1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U 200	600		1
04688	Benzyl alcohol	100-51-6	200	U 200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U 20	200		1
04688	Carbazole	86-74-8	20	U 20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U 40	200		1
04688	4-Chloroaniline	106-47-8	80	U 80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U 20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U 20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U 20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U 20	200		1
04688	2-Chlorophenol	95-57-8	20	U 20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U 40	200		1
04688	Dibenzofuran	132-64-9	20	U 20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U 20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U 20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U 20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U 20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U 40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U 40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U 200	600		1
04688	2,4-Dinitrophenol	51-28-5	800	U 800	2,400		1

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Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U 40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U 20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U 20	200		1
04688	Hexachlorobenzene	118-74-1	20	U 20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U 80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U 200	600		1
04688	Hexachloroethane	67-72-1	20	U 20	200		1
04688	Isophorone	78-59-1	20	U 20	200		1
04688	2-Methylphenol	95-48-7	40	U 40	200		1
04688	4-Methylphenol	106-44-5	40	U 40	200		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U 20	200		1
04688	3-Nitroaniline	99-09-2	40	U 40	200		1
04688	4-Nitroaniline	100-01-6	80	U 80	200		1
04688	Nitrobenzene	98-95-3	20	U 20	200		1
04688	2-Nitrophenol	88-75-5	20	U 20	200		1
04688	4-Nitrophenol	100-02-7	200	U 200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U 20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U 20	200		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U 200	600		1
04688	Phenol	108-95-2	20	U 20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U 20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U 40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U 40	200		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U 0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U 0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U 0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U 0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U 0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U 0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U 0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U 0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U 7.2	22		1
10138	Di-n-butylphthalate	84-74-2	7.2	U 7.2	22		1
10138	Chrysene	218-01-9	0.53	J 0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U 0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U 7.2	22		1
10138	Dimethylphthalate	131-11-3	7.2	U 7.2	22		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	12	J 7.2	22		1
10138	Fluoranthene	206-44-0	0.80	U 0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U 0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U 0.80	2.0		1

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Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	1-Methylnaphthalene	90-12-0	0.80 U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80 U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80 U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80 U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2 U	7.2	22		1
10138	Phenanthrene	85-01-8	0.80 U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80 U	0.80	2.0		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC Volatiles	TPH GRO	SW-846 8015B mod	mg/kg	mg/kg	mg/kg	mg/kg
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1.0	21.44

Explosives	SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	90 U	90	180
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60 U	60	180
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120 U	120	360
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120 U	120	360
10132	1,3-Dinitrobenzene	99-65-0	60 U	60	180
10132	2,4-Dinitrotoluene	121-14-2	60 U	60	180
10132	2,6-Dinitrotoluene	606-20-2	60 U	60	180
10132	HMX	2691-41-0	150 U	150	450
10132	Nitrobenzene	98-95-3	60 U	60	180
10132	Nitroglycerin	55-63-0	1,200 U	1,200	3,600
10132	2-Nitrotoluene	88-72-2	120 U	120	180
10132	3-Nitrotoluene	99-08-1	150 U	150	180
10132	4-Nitrotoluene	99-99-0	120 U	120	180
10132	PETN	78-11-5	1,200 U	1,200	3,600
10132	RDX	121-82-4	75 U	75	180
10132	Tetryl	479-45-8	92 U	92	180

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 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-9.0-10.0

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	60	U 60	180	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U 60	180	1000000	1
HPLC Organics							
	SW-846 8315A		ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	2,600	720	1,800		1
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U 1.2	4.0		1
10225	Aroclor 5442	12642-23-8	1.2	U 1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2	U 1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40	U 0.40	2.0		1
10225	PCB-1221	11104-28-2	0.60	U 0.60	2.0		1
10225	PCB-1232	11141-16-5	0.63	U 0.63	2.0		1
10225	PCB-1242	53469-21-9	0.60	U 0.60	2.0		1
10225	PCB-1248	12672-29-6	0.40	U 0.40	2.0		1
10225	PCB-1254	11097-69-1	0.66	J 0.40	2.0		1
10225	PCB-1260	11096-82-5	0.40	U 0.40	2.0		1
10225	PCB-1262	37324-23-5	0.40	U 0.40	2.0		1
10225	PCB-1268	11100-14-4	0.40	U 0.40	2.0		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.48	U 0.48	1.4		1
10199	EFH (C15-C20)	n.a.	0.48	U 0.48	1.4		1
10199	EFH (C21-C30)	n.a.	0.48	U 0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	0.48	U 0.48	1.4		1
10199	EFH (C8-C11)	n.a.	0.48	U 0.48	1.4		1
GC Miscellaneous							
	SW-846 8015B		ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	120	U 120	600		1
10501	Isopropanol	67-63-0	120	U 120	600		1
10501	Methanol	67-56-1	620	120	600		1
GC Miscellaneous							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	6.0	U 6.0	15		1
08283	Ethylene glycol	107-21-1	6.0	U 6.0	15		1
08283	Propylene glycol	57-55-6	6.0	U 6.0	15		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls							
	SW-846 8015B		mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U 1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U 1.8	4.2		1

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 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

CDM Federal Programs Corp.
 14420 Albemarle Point Place
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Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls								
	SW-846 8015B		mg/kg		mg/kg	mg/kg	mg/kg	
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals								
	SW-846 6010B		mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	33,600		5.99	23.8		1
07914	Boron	7440-42-8	8.24		1.06	5.95		1
01650	Calcium	7440-70-2	26,200		7.29	23.8		1
01654	Iron	7439-89-6	34,100		11.2	47.6		2
01656	Lithium	7439-93-2	28.1		0.26	2.4		1
01657	Magnesium	7439-95-4	8,130		3.02	11.9		1
06958	Manganese	7439-96-5	402		0.0928	0.595		1
10145	Phosphorus	7723-14-0	468		0.666	11.9		1
01662	Potassium	7440-09-7	4,790		21.4	59.5		1
01667	Sodium	7440-23-5	256		44.4	119		1
07968	Strontium	7440-24-6	51.3		0.0738	0.595		1
06969	Tin	7440-31-5	2.81	J	1.19	11.9		1
06970	Titanium	7440-32-6	1,610		0.452	1.19		1
10146	Zirconium	7440-67-7	4.89	J	1.00	5.95		1
	SW-846 6020		mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.366		0.0700	0.233		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.20		0.0700	0.467		2
06126	Barium	7440-39-3	183		0.126	0.467		2
06127	Beryllium	7440-41-7	0.889		0.0187	0.117		2
06128	Cadmium	7440-43-9	0.454		0.0420	0.117		2
06131	Chromium	7440-47-3	43.0		0.140	0.467		2
06132	Cobalt	7440-48-4	10.0		0.0233	0.117		2
06133	Copper	7440-50-8	17.9		0.0770	0.467		2
06135	Lead	7439-92-1	14.0		0.0121	0.233		2
06138	Molybdenum	7439-98-7	0.801		0.0583	0.117		2
06139	Nickel	7440-02-0	20.3		0.117	0.467		2
06141	Selenium	7782-49-2	0.252	J	0.0467	0.467		2
06142	Silver	7440-22-4	0.0645	J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.439		0.0350	0.117		2
06148	Vanadium	7440-62-2	79.2		0.0257	0.117		2
06149	Zinc	7440-66-6	96.1		0.653	3.50		2
	SW-846 7471A		mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0068	J	0.0034	0.120		1
Wet Chemistry								
	EPA 300.0		mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.6		0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.96	U	0.96	1.8		1
	EPA 314.0		ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.8	U	10.8	36.1		1

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

Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3905 SDG#: DE039-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	1.8	0.24	1.2		1
		SW-846 9012B	mg/kg	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.21 U	0.21	0.58		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	438	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.15	0.0100	0.0100		1
Wet Chemistry							
		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	16.8	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-004-SA5C-SB-9.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 20:31	Laura M Krieger	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 12:41	Jason M Long	19.47
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035023323	12/16/2010 12:09	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035023323	12/16/2010 12:07	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035023323	12/16/2010 12:07	Stephanie A Sanchez	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035023323	12/16/2010 12:09	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011 19:32	Timothy J Trees	1

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

Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3905 SDG#: DE039-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 13:46	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 20:25	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 14:49	Elizabeth J Marin	21.44
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035023324	12/16/2010 12:10	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 10:58	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 01:02	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 21:49	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 13:15	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/21/2010 00:19	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 20:04	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 00:29	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 20:46	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:21	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 13:16	Choon Y Tian	2

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

Sample Description: SL-004-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-9.0-10.0

LLI Sample # SW 6164945
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:18

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3905 SDG#: DE039-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010	13:16	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010	13:16	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010	13:16	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010	13:16	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010	13:16	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010	13:16	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010	13:16	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010	13:16	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010	13:16	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010	13:16	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010	13:16	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010	13:16	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010	13:16	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010	13:16	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010	13:16	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010	10:13	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010	20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010	20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010	22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011	00:56	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007201A	01/08/2011	00:56	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011	16:23	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011	14:22	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202A	12/27/2010	20:25	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011	14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011	13:20	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202A	12/27/2010	17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010	13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010	13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011	07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010	05:26	William C Schwebel	1

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

Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4 U	7.4	8.8		0.92
06192	Benzene	71-43-2	0.11 U	0.11	4.4		0.92
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.4		0.92
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.4		0.92
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.4		0.92
06192	Bromoform	75-25-2	0.44 U	0.44	4.4		0.92
06192	Bromomethane	74-83-9	0.28 U	0.28	4.4		0.92
06192	2-Butanone	78-93-3	1.3 U	1.3	8.8		0.92
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.4		0.92
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.4		0.92
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.4		0.92
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.4		0.92
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.4		0.92
06192	Chloroethane	75-00-3	0.14 U	0.14	4.4		0.92
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33 U	0.33	4.4		0.92
06192	Chloroform	67-66-3	0.13 U	0.13	4.4		0.92
06192	Chloromethane	74-87-3	0.36 U	0.36	4.4		0.92
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.4		0.92
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.4		0.92
06192	Chlorotrifluoroethene	79-38-9	0.55 U	0.55	5.5		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.77 U	0.77	4.4		0.92
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.4		0.92
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.4		0.92
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.4		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.4		0.92
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.4		0.92
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.4		0.92
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.4		0.92
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.4		0.92
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.4		0.92
06192	1,1-Dichloroethene	75-35-4	0.43 U	0.43	4.4		0.92
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.4		0.92
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.4		0.92
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.4		0.92
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.4		0.92
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.4		0.92
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.4		0.92
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.4		0.92
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.4		0.92
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.4		0.92
06192	Freon 113	76-13-1	0.12 U	0.12	4.4		0.92
06192	Freon 133a	75-88-7	0.55 U	0.55	5.5		0.92
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.4		0.92
06192	2-Hexanone	591-78-6	1.8 U	1.8	8.8		0.92
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.4		0.92
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.4		0.92
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.4		0.92
06192	4-Methyl-2-pentanone	108-10-1	0.43 U	0.43	8.8		0.92
06192	Methylene Chloride	75-09-2	0.97 J	0.26	4.4		0.92
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.4		0.92

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

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

Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B							
06192	Styrene	100-42-5	0.11 U	0.11	4.4		0.92
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.4		0.92
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.4		0.92
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.4		0.92
06192	Toluene	108-88-3	0.09 J	0.09	4.4		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.4		0.92
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.4		0.92
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.4		0.92
06192	1,1,2-Trichloroethane	79-00-5	0.30 U	0.30	4.4		0.92
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.4		0.92
06192	Trichlorofluoromethane	75-69-4	0.32 U	0.32	4.4		0.92
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36	4.4		0.92
06192	1,2,4-Trimethylbenzene	95-63-6	0.44 U	0.44	4.4		0.92
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.4		0.92
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.4		0.92
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.4		0.92
06192	o-Xylene	95-47-6	0.19 U	0.19	4.4		0.92
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	4.6 U	4.6	14		19.08
GC/MS Semivolatiles EPA 1625C							
11622	N-Nitrosodimethylamine	62-75-9	66.2	19.9	39.8		1
GC/MS Semivolatiles SW-846 8270C							
04688	Aniline	62-53-3	200	U 200	600		1
04688	Benzidine	92-87-5	1,400	U 1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U 200	600		1
04688	Benzyl alcohol	100-51-6	200	U 200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U 20	200		1
04688	Carbazole	86-74-8	20	U 20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U 40	200		1
04688	4-Chloroaniline	106-47-8	80	U 80	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U 20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U 20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U 20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U 20	200		1
04688	2-Chlorophenol	95-57-8	20	U 20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U 40	200		1
04688	Dibenzofuran	132-64-9	20	U 20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U 20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U 20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U 20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U 20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U 40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U 40	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U 200	600		1
04688	2,4-Dinitrophenol	51-28-5	800	U 800	2,400		1

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

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

Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	40	U 40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U 20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U 20	200		1
04688	Hexachlorobenzene	118-74-1	20	U 20	200		1
04688	Hexachlorobutadiene	87-68-3	80	U 80	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U 200	600		1
04688	Hexachloroethane	67-72-1	20	U 20	200		1
04688	Isophorone	78-59-1	20	U 20	200		1
04688	2-Methylphenol	95-48-7	40	U 40	200		1
04688	4-Methylphenol	106-44-5	40	U 40	200		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U 20	200		1
04688	3-Nitroaniline	99-09-2	40	U 40	200		1
04688	4-Nitroaniline	100-01-6	80	U 80	200		1
04688	Nitrobenzene	98-95-3	20	U 20	200		1
04688	2-Nitrophenol	88-75-5	20	U 20	200		1
04688	4-Nitrophenol	100-02-7	200	U 200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U 20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U 20	200		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	200	U 200	600		1
04688	Phenol	108-95-2	20	U 20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U 20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U 40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U 40	200		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.80	U 0.80	2.0		1
10138	Acenaphthylene	208-96-8	0.40	U 0.40	2.0		1
10138	Anthracene	120-12-7	0.40	U 0.40	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.80	U 0.80	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.80	U 0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.80	U 0.80	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.80	U 0.80	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.80	U 0.80	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	U 7.2	21		1
10138	Di-n-butylphthalate	84-74-2	7.2	U 7.2	21		1
10138	Chrysene	218-01-9	0.50	J 0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U 0.80	2.0		1
10138	Diethylphthalate	84-66-2	7.2	U 7.2	21		1
10138	Dimethylphthalate	131-11-3	7.2	U 7.2	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	J 7.2	21		1
10138	Fluoranthene	206-44-0	0.80	U 0.80	2.0		1
10138	Fluorene	86-73-7	0.80	U 0.80	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.80	U 0.80	2.0		1

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

Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	1-Methylnaphthalene	90-12-0	0.80 U	0.80	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.80 U	0.80	2.0		1
10138	Naphthalene	91-20-3	0.80 U	0.80	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.80 U	0.80	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2 U	7.2	21		1
10138	Phenanthrene	85-01-8	0.80 U	0.80	2.0		1
10138	Pyrene	129-00-0	0.80 U	0.80	2.0		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC Volatiles	TPH GRO	SW-846 8015B mod	mg/kg	mg/kg	mg/kg	mg/kg
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1	20.36

Explosives	SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	89 U	89	180
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60 U	60	180
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120 U	120	360
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120 U	120	360
10132	1,3-Dinitrobenzene	99-65-0	60 U	60	180
10132	2,4-Dinitrotoluene	121-14-2	60 U	60	180
10132	2,6-Dinitrotoluene	606-20-2	60 U	60	180
10132	HMX	2691-41-0	150 U	150	450
10132	Nitrobenzene	98-95-3	60 U	60	180
10132	Nitroglycerin	55-63-0	1,200 U	1,200	3,600
10132	2-Nitrotoluene	88-72-2	120 U	120	180
10132	3-Nitrotoluene	99-08-1	150 U	150	180
10132	4-Nitrotoluene	99-99-0	120 U	120	180
10132	PETN	78-11-5	1,200 U	1,200	3,600
10132	RDX	121-82-4	75 U	75	180
10132	Tetryl	479-45-8	91 U	91	180

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



Analysis Report

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

Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	60	U 60	180	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U 60	180	1000000	1
HPLC Organics							
	SW-846 8315A		ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	720	U 720	1,800		1
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2	U 1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2	U 1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.2	U 1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39	U 0.39	2.0		1
10225	PCB-1221	11104-28-2	0.60	U 0.60	2.0		1
10225	PCB-1232	11141-16-5	0.62	U 0.62	2.0		1
10225	PCB-1242	53469-21-9	0.60	U 0.60	2.0		1
10225	PCB-1248	12672-29-6	0.39	U 0.39	2.0		1
10225	PCB-1254	11097-69-1	0.39	U 0.39	2.0		1
10225	PCB-1260	11096-82-5	0.39	U 0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39	U 0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39	U 0.39	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

GC Extractable TPH	SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg
10199	EFH (C12-C14)	n.a.	0.48	U 0.48	1.4
10199	EFH (C15-C20)	n.a.	0.48	U 0.48	1.4
10199	EFH (C21-C30)	n.a.	0.48	U 0.48	1.4
10199	EFH (C30 - C40)	n.a.	1.1	J 0.48	1.4
10199	EFH (C8-C11)	n.a.	0.48	U 0.48	1.4

The beginning CCV was outside method criteria. Due to limited extract volume a re-analysis could not be performed; therefore, the data is reported.

GC Miscellaneous	SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg
10501	Ethanol	64-17-5	120	U 120	600
10501	Isopropanol	67-63-0	120	U 120	600
10501	Methanol	67-56-1	410	J 120	600

GC Miscellaneous	SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg
08283	Diethylene glycol	111-46-6	6.0	U 6.0	15
08283	Ethylene glycol	107-21-1	6.0	U 6.0	15
08283	Propylene glycol	57-55-6	6.0	U 6.0	15

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Terphenyls	SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg
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 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls			mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.8	U	1.8	4.2		1
10318	o-Terphenyl	84-15-1	1.8	U	1.8	4.2		1
10318	p-Terphenyl	92-94-4	1.8	U	1.8	4.2		1
Metals			mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	29,700		5.77	22.9		1
07914	Boron	7440-42-8	4.55	J	1.02	5.74		1
01650	Calcium	7440-70-2	16,000		7.03	22.9		1
01654	Iron	7439-89-6	30,600		10.8	45.9		2
01656	Lithium	7439-93-2	28.2		0.25	2.3		1
01657	Magnesium	7439-95-4	6,590		2.91	11.5		1
06958	Manganese	7439-96-5	370		0.0895	0.574		1
10145	Phosphorus	7723-14-0	311		0.643	11.5		1
01662	Potassium	7440-09-7	3,660		20.7	57.4		1
01667	Sodium	7440-23-5	182		42.8	115		1
07968	Strontium	7440-24-6	34.0		0.0711	0.574		1
06969	Tin	7440-31-5	2.90	J	1.15	11.5		1
06970	Titanium	7440-32-6	1,580		0.436	1.15		1
10146	Zirconium	7440-67-7	3.75	J	0.964	5.74		1
SW-846 6020			mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.318		0.0709	0.236		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.								
06125	Arsenic	7440-38-2	8.70		0.0709	0.473		2
06126	Barium	7440-39-3	160		0.128	0.473		2
06127	Beryllium	7440-41-7	0.928		0.0189	0.118		2
06128	Cadmium	7440-43-9	0.237		0.0425	0.118		2
06131	Chromium	7440-47-3	39.0		0.142	0.473		2
06132	Cobalt	7440-48-4	9.82		0.0236	0.118		2
06133	Copper	7440-50-8	15.8		0.0780	0.473		2
06135	Lead	7439-92-1	12.5		0.0123	0.236		2
06138	Molybdenum	7439-98-7	0.470		0.0591	0.118		2
06139	Nickel	7440-02-0	17.8		0.118	0.473		2
06141	Selenium	7782-49-2	0.0746	J	0.0473	0.473		2
06142	Silver	7440-22-4	0.0893	J	0.0142	0.118		2
06145	Thallium	7440-28-0	0.422		0.0354	0.118		2
06148	Vanadium	7440-62-2	71.3		0.0260	0.118		2
06149	Zinc	7440-66-6	70.9		0.662	3.54		2
SW-846 7471A			mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0138	J	0.0033	0.115		1
Wet Chemistry			mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.2		0.95	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6	J	0.95	1.8		1

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

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



Analysis Report

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

Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3906 SDG#: DE039-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7 ug/kg	35.8 ug/kg	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 U	0.24 mg/kg	1.2 mg/kg	mg/kg	1
SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.21 U	0.21 mg/kg	0.58 mg/kg	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	426 mV	10.0 mV	10.0 mV	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	8.25 Std. Units	0.0100 Std. Units	0.0100 Std. Units	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	16.2 %	0.50 %	0.50 %	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-004-SA5C-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 20:54	Laura M Krieger	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 13:01	Jason M Long	19.08
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201035023323	12/16/2010 12:08	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201035023323	12/16/2010 12:07	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201035023323	12/16/2010 12:07	Stephanie A Sanchez	n.a.

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Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3906 SDG#: DE039-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201035023323	12/16/2010 12:08	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011 19:49	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 14:20	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 21:00	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 15:25	Elizabeth J Marin	20.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201035023323	12/16/2010 12:08	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 11:40	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 01:12	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 22:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 13:40	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/21/2010 00:33	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 18:28	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 01:14	Heather E Williams	1
11238	EPH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 20:50	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1

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

Sample Description: SL-004-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-004-SA5C-SB-4.0-5.0

LLI Sample # SW 6164946
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:11

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3906 SDG#: DE039-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:25	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 13:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 13:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 13:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 13:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:14	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 01:39	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007201A	01/08/2011 01:39	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 17:11	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 14:38	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202B	12/27/2010 20:27	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202B	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182102B	12/16/2010 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039402B	12/16/2010 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010 05:26	William C Schwebel	1

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Sample Description: SL-140-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3907 SDG#: DE039-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.0 U	7.0	8.4		0.94
06192	Benzene	71-43-2	0.10 U	0.10	4.2		0.94
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.2		0.94
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.2		0.94
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.2		0.94
06192	Bromoform	75-25-2	0.42 U	0.42	4.2		0.94
06192	Bromomethane	74-83-9	0.26 U	0.26	4.2		0.94
06192	2-Butanone	78-93-3	1.3 U	1.3	8.4		0.94
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.2		0.94
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.2		0.94
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.2		0.94
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.2		0.94
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.2		0.94
06192	Chloroethane	75-00-3	0.14 U	0.14	4.2		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.2		0.94
06192	Chloroform	67-66-3	0.13 U	0.13	4.2		0.94
06192	Chloromethane	74-87-3	0.34 U	0.34	4.2		0.94
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.2		0.94
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.2		0.94
06192	Chlorotrifluoroethene	79-38-9	0.52 U	0.52	5.2		0.94
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.73 U	0.73	4.2		0.94
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.2		0.94
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.2		0.94
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.2		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.2		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.2		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.2		0.94
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.2		0.94
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.2		0.94
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.2		0.94
06192	1,1-Dichloroethene	75-35-4	0.41 U	0.41	4.2		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.2		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.2		0.94
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.2		0.94
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.2		0.94
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.2		0.94
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.2		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.2		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.2		0.94
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.2		0.94
06192	Freon 113	76-13-1	0.11 U	0.11	4.2		0.94
06192	Freon 133a	75-88-7	0.52 U	0.52	5.2		0.94
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.2		0.94
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.4		0.94
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.2		0.94
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.2		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.2		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.41 U	0.41	8.4		0.94
06192	Methylene Chloride	75-09-2	2.8 J	0.25	4.2		0.94
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.2		0.94

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Sample Description: SL-140-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3907 SDG#: DE039-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B							
06192	Styrene	100-42-5	0.10 U	0.10	4.2		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.2		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.2		0.94
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.2		0.94
06192	Toluene	108-88-3	0.09 J	0.08	4.2		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.2		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.2		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.2		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.2		0.94
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.2		0.94
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.2		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.2		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.42 U	0.42	4.2		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.2		0.94
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.2		0.94
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.2		0.94
06192	o-Xylene	95-47-6	0.18 U	0.18	4.2		0.94
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	5.1 U	5.1	15		23.02
GC/MS Semivolatiles SW-846 8270C							
04688	Aniline	62-53-3	190	U 190	560		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U 190	560		1
04688	Benzyl alcohol	100-51-6	190	U 190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	190		1
04688	4-Chloroaniline	106-47-8	74	U 74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U 740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1

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Sample Description: SL-140-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3907 SDG#: DE039-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	50	J 19	370		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	37	U 37	190		1
04688	4-Methylphenol	106-44-5	37	U 37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	37	U 37	190		1
04688	4-Nitroaniline	100-01-6	74	U 74	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	560		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U 0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20		1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U 0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U 0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U 0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U 0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U 0.74	1.9		1

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

Sample Description: SL-140-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3907 SDG#: DE039-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.74 U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74 U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74 U	0.74	1.9		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9	1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	18,600	5.38	21.4	1
07914	Boron	7440-42-8	2.76 J	0.952	5.35	1
01650	Calcium	7440-70-2	2,770	6.56	21.4	1
01654	Iron	7439-89-6	21,400	5.04	21.4	1
01656	Lithium	7439-93-2	19.6	0.24	2.1	1
01657	Magnesium	7439-95-4	3,570	2.72	10.7	1
06958	Manganese	7439-96-5	143	0.0834	0.535	1
10145	Phosphorus	7723-14-0	131	0.599	10.7	1
01662	Potassium	7440-09-7	1,450	19.3	53.5	1
01667	Sodium	7440-23-5	386	39.9	107	1
07968	Strontium	7440-24-6	26.3	0.0663	0.535	1
06969	Tin	7440-31-5	2.61 J	1.07	10.7	1
06970	Titanium	7440-32-6	1,250	0.406	1.07	1
10146	Zirconium	7440-67-7	2.03 J	0.898	5.35	1

		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg
06124	Antimony	7440-36-0	0.169 J	0.0661	0.220	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.88	0.0661	0.441	2
06126	Barium	7440-39-3	132	0.119	0.441	2
06127	Beryllium	7440-41-7	0.666	0.0176	0.110	2

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

Sample Description: SL-140-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3907 SDG#: DE039-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06128	Cadmium	7440-43-9	0.0533 J	0.0396	0.110		2
06131	Chromium	7440-47-3	24.6	0.132	0.441		2
06132	Cobalt	7440-48-4	4.65	0.0220	0.110		2
06133	Copper	7440-50-8	8.83	0.0727	0.441		2
06135	Lead	7439-92-1	8.73	0.0115	0.220		2
06138	Molybdenum	7439-98-7	0.412	0.0551	0.110		2
06139	Nickel	7440-02-0	11.0	0.110	0.441		2
06141	Selenium	7782-49-2	0.0532 J	0.0441	0.441		2
06142	Silver	7440-22-4	0.0480 J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.352	0.0330	0.110		2
06148	Vanadium	7440-62-2	50.1	0.0242	0.110		2
06149	Zinc	7440-66-6	49.0	0.617	3.30		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0063 J	0.0032	0.111		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.0	0.89	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.0 U	10.0	33.4		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	381	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.08	0.0100	0.0100		1
Wet Chemistry							
		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.1	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

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

Sample Description: SL-140-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3907 SDG#: DE039-07

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-140-SA5C-SB-3.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 21:16	Laura M Krieger	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 18:19	Jason M Long	23.02
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034923319	12/15/2010 22:39	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 14:55	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 21:35	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:38	Lois E Hiltz	n.a.
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 22:26	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:29	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 12:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:33	Choon Y Tian	2

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

Sample Description: SL-140-SA5C-SB-3.0-4.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SB-3.0-4.0

LLI Sample # SW 6164947
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:28

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3907 SDG#: DE039-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010	12:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010	12:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010	12:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010	12:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010	12:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010	12:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010	12:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010	12:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010	10:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010	20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010	20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010	22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011	01:53	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011	17:35	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011	14:54	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011	14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011	13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010	14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010	14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011	07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10364162402A	12/31/2010	05:26	William C Schwebel	1

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

Sample Description: SED-024-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3908 SDG#: DE039-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	570		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U 190	570		1
04688	Benzyl alcohol	100-51-6	190	U 190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	76	U 76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U 760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1
04688	4-Nitroaniline	100-01-6	76	U 76	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	570		1
04688	Phenol	108-95-2	19	U 19	190		1

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

Sample Description: SED-024-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3908 SDG#: DE039-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76	U 0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.76	U 0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.76	U 0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J 0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.76	U 0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.76	U 0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21		1
10138	Chrysene	218-01-9	1.1	J 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U 0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	10	J 6.9	21		1
10138	Fluoranthene	206-44-0	1.2	J 0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76	U 0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U 0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U 0.76	1.9		1
10138	Naphthalene	91-20-3	1.5	J 0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U 0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U 6.9	21		1
10138	Phenanthrene	85-01-8	1.5	J 0.76	1.9		1
10138	Pyrene	129-00-0	0.95	J 0.76	1.9		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.4	U 1.4	4.1
10401	Dalapon	75-99-0	5.0	U 5.0	10
10401	2,4-DB	94-82-6	11	U 11	11
10401	Dicamba	1918-00-9	1.0	J 0.46	1.4
10401	Dinoseb	88-85-7	0.92	U 0.92	2.8
10401	2,4-DP (Dichlorprop)	120-36-5	0.92	U 0.92	1.9
10401	MCPA	94-74-6	87	U 87	290
10401	MCPP (Mecoprop)	93-65-2	86	U 86	290
10401	2,4,5-T	93-76-5	0.094	U 0.094	0.19
10401	2,4,5-TP	93-72-1	0.086	U 0.086	0.19

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

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Analysis Report

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

Sample Description: SED-024-SIV-SD-0.0-0.5 Sediment
 SSFL Area IV Collocated Soil Sampling
 SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3908 SDG#: DE039-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable.							
Perchlorate SW-846 6850 1/2007							
06557	6a Perchlorate EPA 6850	14797-73-0	2.4 U	ug/kg 2.4	ug/kg 5.7	ug/kg	1
Pesticides/PCBs SW-846 8081A							
01363	Aldrin	309-00-2	0.38 U	ug/kg 0.38	ug/kg 0.95	ug/kg	5
01363	Alpha BHC	319-84-6	0.19 U	ug/kg 0.19	ug/kg 0.95	ug/kg	5
01363	Beta BHC	319-85-7	0.34 U	ug/kg 0.34	ug/kg 0.95	ug/kg	5
01363	Gamma BHC - Lindane	58-89-9	0.19 U	ug/kg 0.19	ug/kg 0.95	ug/kg	5
01363	Chlordane	57-74-9	4.6 U	ug/kg 4.6	ug/kg 19	ug/kg	5
01363	p,p-DDD	72-54-8	0.64 U	ug/kg 0.64	ug/kg 1.9	ug/kg	5
01363	p,p-DDE	72-55-9	0.68 U	ug/kg 0.68	ug/kg 1.9	ug/kg	5
01363	p,p-DDT	50-29-3	1.9 U	ug/kg 1.9	ug/kg 1.9	ug/kg	5
01363	Delta BHC	319-86-8	0.93 J	ug/kg 0.21	ug/kg 0.95	ug/kg	5
01363	Dieldrin	60-57-1	0.65 U	ug/kg 0.65	ug/kg 1.9	ug/kg	5
01363	Endosulfan I	959-98-8	0.25 U	ug/kg 0.25	ug/kg 0.95	ug/kg	5
01363	Endosulfan II	33213-65-9	0.38 U	ug/kg 0.38	ug/kg 1.9	ug/kg	5
01363	Endosulfan Sulfate	1031-07-8	0.94 U	ug/kg 0.94	ug/kg 1.9	ug/kg	5
01363	Endrin	72-20-8	0.38 U	ug/kg 0.38	ug/kg 1.9	ug/kg	5
01363	Endrin Aldehyde	7421-93-4	0.99 U	ug/kg 0.99	ug/kg 1.9	ug/kg	5
01363	Endrin Ketone	53494-70-5	0.38 U	ug/kg 0.38	ug/kg 1.9	ug/kg	5
01363	Heptachlor	76-44-8	0.39 J	ug/kg 0.34	ug/kg 0.95	ug/kg	5
01363	Heptachlor Epoxide	1024-57-3	0.62 U	ug/kg 0.62	ug/kg 0.95	ug/kg	5
01363	Methoxychlor	72-43-5	3.1 U	ug/kg 3.1	ug/kg 9.5	ug/kg	5
01363	Mirex	2385-85-5	2.5 U	ug/kg 2.5	ug/kg 2.5	ug/kg	5
01363	Toxaphene	8001-35-2	13 U	ug/kg 13	ug/kg 38	ug/kg	5

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

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	1.1 U	ug/kg 1.1	ug/kg 3.8
10225	Aroclor 5442	12642-23-8	1.1 U	ug/kg 1.1	ug/kg 3.8
10225	Aroclor 5460	11126-42-4	3.1 J	ug/kg 1.1	ug/kg 3.8
10225	PCB-1016	12674-11-2	0.38 U	ug/kg 0.38	ug/kg 1.9
10225	PCB-1221	11104-28-2	0.57 U	ug/kg 0.57	ug/kg 1.9
10225	PCB-1232	11141-16-5	0.60 U	ug/kg 0.60	ug/kg 1.9
10225	PCB-1242	53469-21-9	0.57 U	ug/kg 0.57	ug/kg 1.9
10225	PCB-1248	12672-29-6	0.38 U	ug/kg 0.38	ug/kg 1.9
10225	PCB-1254	11097-69-1	2.4	ug/kg 0.38	ug/kg 1.9
10225	PCB-1260	11096-82-5	1.5 J	ug/kg 0.38	ug/kg 1.9
10225	PCB-1262	37324-23-5	0.38 U	ug/kg 0.38	ug/kg 1.9
10225	PCB-1268	11100-14-4	0.38 U	ug/kg 0.38	ug/kg 1.9

The stated QC limits are advisory only until sufficient data points

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Sample Description: SED-024-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3908 SDG#: DE039-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
can be obtained to calculate statistical limits.							
Metals SW-846 6010B			mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,500	5.66	22.5		1
07914	Boron	7440-42-8	3.73 J	1.00	5.62		1
01650	Calcium	7440-70-2	3,960	6.89	22.5		1
01654	Iron	7439-89-6	22,600	5.30	22.5		1
01656	Lithium	7439-93-2	24.5	0.25	2.2		1
01657	Magnesium	7439-95-4	5,470	2.86	11.2		1
06958	Manganese	7439-96-5	309	0.0877	0.562		1
10145	Phosphorus	7723-14-0	434	0.630	11.2		1
01662	Potassium	7440-09-7	3,150	20.2	56.2		1
01667	Sodium	7440-23-5	68.9 J	41.9	11.2		1
07968	Strontium	7440-24-6	15.2	0.0697	0.562		1
06969	Tin	7440-31-5	2.66 J	1.12	11.2		1
06970	Titanium	7440-32-6	1,350	0.427	1.12		1
10146	Zirconium	7440-67-7	1.51 J	0.944	5.62		1
SW-846 6020			mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.194 J	0.0668	0.223		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	4.96	0.0668	0.445		2
06126	Barium	7440-39-3	99.6	0.120	0.445		2
06127	Beryllium	7440-41-7	0.455	0.0178	0.111		2
06128	Cadmium	7440-43-9	0.251	0.0401	0.111		2
06131	Chromium	7440-47-3	21.8	0.134	0.445		2
06132	Cobalt	7440-48-4	7.26	0.0223	0.111		2
06133	Copper	7440-50-8	10.3	0.0735	0.445		2
06135	Lead	7439-92-1	16.7	0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.570	0.0557	0.111		2
06139	Nickel	7440-02-0	14.2	0.111	0.445		2
06141	Selenium	7782-49-2	0.206 J	0.0445	0.445		2
06142	Silver	7440-22-4	0.0600 J	0.0134	0.111		2
06145	Thallium	7440-28-0	0.300	0.0334	0.111		2
06148	Vanadium	7440-62-2	48.1	0.0245	0.111		2
06149	Zinc	7440-66-6	82.8	0.623	3.34		2
SW-846 7471A			mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0121 J	0.0033	0.114		1
Wet Chemistry EPA 300.0			mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.3	0.92	1.1		1
EPA 314.0			ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.4		1
SW-846 7199			mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1		1

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Sample Description: SED-024-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3908 SDG#: DE039-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	463	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	6.78	0.0100	0.0100	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	12.8	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 15:30	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 22:09	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 15:15	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 17:51	Michele D Hamilton	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103500020A	12/21/2010 18:03	Richard A Shober	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 20:49	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 22:45	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1

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Sample Description: SED-024-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3908 SDG#: DE039-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
06568	Perchlorate Soil Prep	SW-846 6850	1/2007	1	103500020A	12/17/2010 09:10	Maria Davenport	1
01643	Aluminum	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
07914	Boron	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
01650	Calcium	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
01654	Iron	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
01656	Lithium	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
01657	Magnesium	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
06958	Manganese	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
10145	Phosphorus	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
01662	Potassium	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
01667	Sodium	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
07968	Strontium	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
06969	Tin	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
06970	Titanium	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
10146	Zirconium	SW-846 6010B		1	103515708009	12/22/2010 19:32	John P Hook	1
06124	Antimony	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06126	Barium	SW-846 6020		1	103511026004D	12/26/2010 12:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06131	Chromium	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06133	Copper	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06135	Lead	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020		1	103511026004C	12/26/2010 12:36	Choon Y Tian	2
06139	Nickel	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06141	Selenium	SW-846 6020		1	103511026004B	12/26/2010 12:36	Choon Y Tian	2
06142	Silver	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06145	Thallium	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
06149	Zinc	SW-846 6020		1	103511026004A	12/26/2010 12:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A		1	103515711005	12/20/2010 10:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B		1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B		1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified		1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0		1	11007007201A	01/08/2011 02:07	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0		1	11005005201A	01/06/2011 18:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199		1	11001243201A	01/04/2011 15:10	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0		1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0		1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498		1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1

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Sample Description: SED-024-SIV-SD-0.0-0.5 Sediment
 SSFL Area IV Collocated Soil Sampling
 SED-024-SIV-SD-0.0-0.5

LLI Sample # SW 6164948
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 11:16

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3908 SDG#: DE039-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

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Sample Description: SED-023-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164949
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3909 SDG#: DE039-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	560		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U 190	560		1
04688	Benzyl alcohol	100-51-6	190	U 190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	190		1
04688	4-Chloroaniline	106-47-8	75	U 75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U 750	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	75	U 75	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	37	U 37	190		1
04688	4-Methylphenol	106-44-5	37	U 37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	37	U 37	190		1
04688	4-Nitroaniline	100-01-6	75	U 75	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	560		1
04688	Phenol	108-95-2	19	U 19	190		1

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Sample Description: SED-023-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164949
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
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Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3909 SDG#: DE039-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U 0.75	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.75	U 0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75	U 0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J 0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U 0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U 0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20		1
10138	Chrysene	218-01-9	1.4	J 0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75	U 0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	8.4	J 6.7	20		1
10138	Fluoranthene	206-44-0	1.1	J 0.75	1.9		1
10138	Fluorene	86-73-7	0.75	U 0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75	U 0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75	U 0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75	U 0.75	1.9		1
10138	Naphthalene	91-20-3	1.6	J 0.75	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.75	U 0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7	U 6.7	20		1
10138	Phenanthrene	85-01-8	1.6	J 0.75	1.9		1
10138	Pyrene	129-00-0	1.1	J 0.75	1.9		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401 2,4-D	94-75-7	1.3	U 1.3	4.0	1
10401 Dalapon	75-99-0	4.9	U 4.9	10	1
10401 2,4-DB	94-82-6	14	U 0.70	1.9	1
10401 Dicamba	1918-00-9	0.69	J 0.45	1.3	1
10401 Dinoseb	88-85-7	0.90	U 0.90	2.7	1
10401 2,4-DP (Dichlorprop)	120-36-5	0.90	U 0.90	1.9	1
10401 MCPA	94-74-6	85	U 85	280	1
10401 MCPP (Mecoprop)	93-65-2	84	U 84	280	1
10401 2,4,5-T	93-76-5	0.092	U 0.092	0.19	1
10401 2,4,5-TP	93-72-1	0.084	U 0.084	0.19	1

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

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Sample Description: SED-023-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164949
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3909 SDG#: DE039-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		SW-846 8081A	ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.37 U	0.37	0.93		5
01363	Alpha BHC	319-84-6	0.19 U	0.19	0.93		5
01363	Beta BHC	319-85-7	0.34 U	0.34	0.93		5
01363	Gamma BHC - Lindane	58-89-9	0.19 U	0.19	0.93		5
01363	Chlordane	57-74-9	4.5 U	4.5	19		5
01363	p,p-DDD	72-54-8	0.43 U	0.43	1.9		5
01363	p,p-DDE	72-55-9	0.55 U	0.55	1.9		5
01363	p,p-DDT	50-29-3	1.5 U	1.5	1.9		5
01363	Delta BHC	319-86-8	0.26 J	0.20	0.93		5
01363	Dieldrin	60-57-1	0.55 U	0.55	1.9		5
01363	Endosulfan I	959-98-8	0.25 U	0.25	0.93		5
01363	Endosulfan II	33213-65-9	0.40 U	0.40	1.9		5
01363	Endosulfan Sulfate	1031-07-8	0.37 U	0.37	1.9		5
01363	Endrin	72-20-8	0.37 U	0.37	1.9		5
01363	Endrin Aldehyde	7421-93-4	1.3 U	1.3	1.9		5
01363	Endrin Ketone	53494-70-5	0.37 U	0.37	1.9		5
01363	Heptachlor	76-44-8	0.56 J	0.34	0.93		5
01363	Heptachlor Epoxide	1024-57-3	0.19 U	0.19	0.93		5
01363	Methoxychlor	72-43-5	1.9 U	1.9	9.3		5
01363	Mirex	2385-85-5	0.77 U	0.77	1.9		5
01363	Toxaphene	8001-35-2	12 U	12	37		5

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

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9	1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9	1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9	1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9	1
10225	PCB-1254	11097-69-1	1.4 J	0.37	1.9	1
10225	PCB-1260	11096-82-5	0.70 J	0.37	1.9	1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9	1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	10,800	5.47	21.8	1
07914	Boron	7440-42-8	4.10 J	0.969	5.44	1
01650	Calcium	7440-70-2	4,000	6.67	21.8	1

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SSFL Area IV Collocated Soil Sampling
SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164949
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 09:19

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3909 SDG#: DE039-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01654	Iron	7439-89-6	19,900	5.13	21.8		1
01656	Lithium	7439-93-2	22.7	0.24	2.2		1
01657	Magnesium	7439-95-4	5,070	2.76	10.9		1
06958	Manganese	7439-96-5	297	0.0849	0.544		1
10145	Phosphorus	7723-14-0	405	0.610	10.9		1
01662	Potassium	7440-09-7	3,290	19.6	54.4		1
01667	Sodium	7440-23-5	67.3 J	40.6	109		1
07968	Strontium	7440-24-6	15.5	0.0675	0.544		1
06969	Tin	7440-31-5	2.38 J	1.09	10.9		1
06970	Titanium	7440-32-6	1,250	0.414	1.09		1
10146	Zirconium	7440-67-7	1.16 J	0.914	5.44		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.235	0.0666	0.222		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.07	0.0666	0.444		2
06126	Barium	7440-39-3	122	0.120	0.444		2
06127	Beryllium	7440-41-7	0.472	0.0178	0.111		2
06128	Cadmium	7440-43-9	0.216	0.0400	0.111		2
06131	Chromium	7440-47-3	23.2	0.133	0.444		2
06132	Cobalt	7440-48-4	7.05	0.0222	0.111		2
06133	Copper	7440-50-8	10.5	0.0733	0.444		2
06135	Lead	7439-92-1	14.2	0.0115	0.222		2
06138	Molybdenum	7439-98-7	0.678	0.0555	0.111		2
06139	Nickel	7440-02-0	14.0	0.111	0.444		2
06141	Selenium	7782-49-2	0.313 J	0.0444	0.444		2
06142	Silver	7440-22-4	0.0467 J	0.0133	0.111		2
06145	Thallium	7440-28-0	0.357	0.0333	0.111		2
06148	Vanadium	7440-62-2	48.9	0.0244	0.111		2
06149	Zinc	7440-66-6	93.4	0.622	3.33		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0082 J	0.0031	0.109		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90 U	0.90	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.6		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
	ASTM D1498		mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	444	10.0	10.0		1

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LLI Sample # SW 6164949
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Project Name: SSFL Area IV Collocated Soil Sampling

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E3909 SDG#: DE039-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified			Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.02	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10.8	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 16:05	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 22:43	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 16:37	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 18:19	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 21:03	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 23:03	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 19:36	John P Hook	1

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Sample Description: SED-023-SIV-SD-0.0-0.5 Sediment
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SED-023-SIV-SD-0.0-0.5

LLI Sample # SW 6164949
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E3909 SDG#: DE039-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010	19:36	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010	19:36	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010	19:36	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010	19:36	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010	19:36	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010	19:36	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010	19:36	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010	19:36	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010	19:36	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010	19:36	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010	12:39	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010	12:39	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010	12:39	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010	12:39	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010	12:39	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010	12:39	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010	12:39	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010	12:39	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/28/2010	17:37	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010	12:39	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010	12:39	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010	12:39	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010	12:39	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010	12:39	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010	12:39	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010	12:39	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010	10:17	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010	20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010	20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010	22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011	02:21	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011	18:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011	15:26	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011	14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011	13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010	14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010	14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011	07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010	09:20	William C Schwebel	1

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

Sample Description: SED-022-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3910 SDG#: DE039-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	540		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,600		1
04688	Benzoic acid	65-85-0	180	U 180	540		1
04688	Benzyl alcohol	100-51-6	180	U 180	540		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	36	U 36	180		1
04688	4-Chloroaniline	106-47-8	72	U 72	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	36	U 36	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	360		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	36	U 36	180		1
04688	3,5-Dimethylphenol	108-68-9	36	U 36	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	540		1
04688	2,4-Dinitrophenol	51-28-5	720	U 720	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	36	U 36	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	72	U 72	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	540		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	36	U 36	180		1
04688	4-Methylphenol	106-44-5	36	U 36	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	36	U 36	180		1
04688	4-Nitroaniline	100-01-6	72	U 72	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	540		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	540		1
04688	Phenol	108-95-2	18	U 18	180		1

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

Sample Description: SED-022-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3910 SDG#: DE039-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	36	U 36	180		1
04688	2,4,6-Trichlorophenol	88-06-2	36	U 36	180		1
GC/MS Semivolatiles SW-846 8270C SIM			ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.72	U 0.72	1.8		1
10138	Acenaphthylene	208-96-8	0.72	J 0.36	1.8		1
10138	Anthracene	120-12-7	0.68	J 0.36	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.2	J 0.72	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.4	J 0.72	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.7	J 0.72	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.2	J 0.72	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	2.1	J 0.72	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	19		1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	19		1
10138	Chrysene	218-01-9	5.6	U 0.36	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.72	U 0.72	1.8		1
10138	Diethylphthalate	84-66-2	6.5	U 6.5	19		1
10138	Dimethylphthalate	131-11-3	6.5	U 6.5	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	20	U 6.5	19		1
10138	Fluoranthene	206-44-0	16	U 0.72	1.8		1
10138	Fluorene	86-73-7	0.72	U 0.72	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J 0.72	1.8		1
10138	1-Methylnaphthalene	90-12-0	1.4	J 0.72	1.8		1
10138	2-Methylnaphthalene	91-57-6	1.6	J 0.72	1.8		1
10138	Naphthalene	91-20-3	2.6	U 0.72	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.72	U 0.72	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.5	U 6.5	19		1
10138	Phenanthrene	85-01-8	16	U 0.72	1.8		1
10138	Pyrene	129-00-0	10	U 0.72	1.8		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Herbicides SW-846 8151A		ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.3	U 1.3	3.9
10401	Dalapon	75-99-0	4.8	U 4.8	9.7
10401	2,4-DB	94-82-6	14	U 14	14
10401	Dicamba	1918-00-9	0.43	U 0.43	1.3
10401	Dinoseb	88-85-7	0.87	U 0.87	2.6
10401	2,4-DP (Dichlorprop)	120-36-5	0.87	U 0.87	1.8
10401	MCPA	94-74-6	1,800	U 82	270
10401	MCPP (Mecoprop)	93-65-2	81	U 81	270
10401	2,4,5-T	93-76-5	0.38	U 0.089	0.18
10401	2,4,5-TP	93-72-1	0.84	U 0.84	0.84

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

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



Analysis Report

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

Sample Description: SED-022-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3910 SDG#: DE039-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: 2,4,5-TP and 2,4-DB.							
Pesticides/PCBs		SW-846 8081A	ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.71 U	0.71	1.8		10
01363	Alpha BHC	319-84-6	0.37 U	0.37	1.8		10
01363	Beta BHC	319-85-7	0.65 U	0.65	1.8		10
01363	Gamma BHC - Lindane	58-89-9	2.7	0.37	1.8		10
01363	Chlordane	57-74-9	8.7 U	8.7	37		10
01363	p,p-DDD	72-54-8	0.71 U	0.71	3.7		10
01363	p,p-DDE	72-55-9	0.96 J	0.71	3.7		10
01363	p,p-DDT	50-29-3	1.6 J	0.71	3.7		10
01363	Delta BHC	319-86-8	2.6	0.39	1.8		10
01363	Dieldrin	60-57-1	0.71 U	0.71	3.7		10
01363	Endosulfan I	959-98-8	0.48 U	0.48	1.8		10
01363	Endosulfan II	33213-65-9	0.71 U	0.71	3.7		10
01363	Endosulfan Sulfate	1031-07-8	0.71 U	0.71	3.7		10
01363	Endrin	72-20-8	0.71 U	0.71	3.7		10
01363	Endrin Aldehyde	7421-93-4	1.8 J	0.71	3.7		10
01363	Endrin Ketone	53494-70-5	0.71 U	0.71	3.7		10
01363	Heptachlor	76-44-8	0.65 U	0.65	1.8		10
01363	Heptachlor Epoxide	1024-57-3	0.37 U	0.37	1.8		10
01363	Methoxychlor	72-43-5	3.7 U	3.7	18		10
01363	Mirex	2385-85-5	0.71 U	0.71	3.7		10
01363	Toxaphene	8001-35-2	24 U	24	71		10

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

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	22 U	22	71	20
10225	Aroclor 5442	12642-23-8	22 U	22	71	20
10225	Aroclor 5460	11126-42-4	22 U	22	71	20
10225	PCB-1016	12674-11-2	7.1 U	7.1	37	20
10225	PCB-1221	11104-28-2	11 U	11	37	20
10225	PCB-1232	11141-16-5	11 U	11	37	20
10225	PCB-1242	53469-21-9	11 U	11	37	20
10225	PCB-1248	12672-29-6	7.1 U	7.1	37	20
10225	PCB-1254	11097-69-1	7.1 U	7.1	37	20
10225	PCB-1260	11096-82-5	7.1 U	7.1	37	20
10225	PCB-1262	37324-23-5	7.1 U	7.1	37	20
10225	PCB-1268	11100-14-4	7.1 U	7.1	37	20

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

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

Sample Description: SED-022-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3910 SDG#: DE039-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	10,800	5.34	21.2		1
07914	Boron	7440-42-8	4.54 J	0.944	5.31		1
01650	Calcium	7440-70-2	3,690	6.50	21.2		1
01654	Iron	7439-89-6	19,400	5.00	21.2		1
01656	Lithium	7439-93-2	24.1	0.23	2.1		1
01657	Magnesium	7439-95-4	4,750	2.70	10.6		1
06958	Manganese	7439-96-5	293	0.0828	0.531		1
10145	Phosphorus	7723-14-0	390	0.594	10.6		1
01662	Potassium	7440-09-7	3,120	19.1	53.1		1
01667	Sodium	7440-23-5	79.9 J	39.6	106		1
07968	Strontium	7440-24-6	16.3	0.0658	0.531		1
06969	Tin	7440-31-5	2.34 J	1.06	10.6		1
06970	Titanium	7440-32-6	1,200	0.403	1.06		1
10146	Zirconium	7440-67-7	0.900 J	0.891	5.31		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.246	0.0637	0.212		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	5.23	0.0637	0.424		2
06126	Barium	7440-39-3	110	0.115	0.424		2
06127	Beryllium	7440-41-7	0.438	0.0170	0.106		2
06128	Cadmium	7440-43-9	0.358	0.0382	0.106		2
06131	Chromium	7440-47-3	22.4	0.127	0.424		2
06132	Cobalt	7440-48-4	8.04	0.0212	0.106		2
06133	Copper	7440-50-8	9.68	0.0700	0.424		2
06135	Lead	7439-92-1	10.5	0.0110	0.212		2
06138	Molybdenum	7439-98-7	0.611	0.0531	0.106		2
06139	Nickel	7440-02-0	12.6	0.106	0.424		2
06141	Selenium	7782-49-2	0.184 J	0.0424	0.424		2
06142	Silver	7440-22-4	0.0842 J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.377	0.0318	0.106		2
06148	Vanadium	7440-62-2	44.8	0.0233	0.106		2
06149	Zinc	7440-66-6	99.0	0.594	3.18		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0220 J	0.0029	0.102		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1	0.87	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.5		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	

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

Sample Description: SED-022-SIV-SD-0.0-0.5 Sediment
 SSFL Area IV Collocated Soil Sampling
 SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3910 SDG#: DE039-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	453	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	7.07	0.0100	0.0100	Std. Units	1
Wet Chemistry							
11624	28a Moisture Content by 160.3	n.a.	7.6	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 16:40	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 23:18	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 17:04	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 18:46	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 21:33	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 23:22	Lindsey K Lafferty	20
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1

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

Sample Description: SED-022-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3910 SDG#: DE039-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:40	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 12:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/28/2010 17:40	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 02:35	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 18:48	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 15:42	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1

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

Sample Description: SED-022-SIV-SD-0.0-0.5 Sediment
 SSFL Area IV Collocated Soil Sampling
 SED-022-SIV-SD-0.0-0.5

LLI Sample # SW 6164950
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 10:08

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3910 SDG#: DE039-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

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

Sample Description: SL-125-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3911 SDG#: DE039-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	530		1
04688	Benzidine	92-87-5	1,200	U 1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U 180	530		1
04688	Benzyl alcohol	100-51-6	180	U 180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U 35	180		1
04688	4-Chloroaniline	106-47-8	70	U 70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U 35	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U 35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U 35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	530		1
04688	2,4-Dinitrophenol	51-28-5	700	U 700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U 35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U 70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	530		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	35	U 35	180		1
04688	4-Methylphenol	106-44-5	35	U 35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	35	U 35	180		1
04688	4-Nitroaniline	100-01-6	70	U 70	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	530		1
04688	Phenol	108-95-2	18	U 18	180		1

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

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

Sample Description: SL-125-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3911 SDG#: DE039-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U 35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U 35	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U 0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U 0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U 0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U 0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U 0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U 0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U 0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U 0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U 6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U 6.3	19		1
10138	Chrysene	218-01-9	0.35	U 0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U 0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U 6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U 6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	32	6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U 0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U 0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U 0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U 0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U 0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U 0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U 0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U 6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U 0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U 0.70	1.8		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.3	U 1.3	3.8
10401	Dalapon	75-99-0	4.6	U 4.6	9.5
10401	2,4-DB	94-82-6	12	U 12	12
10401	Dicamba	1918-00-9	0.42	U 0.42	1.3
10401	Dinoseb	88-85-7	0.84	U 0.84	2.5
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U 0.84	1.8
10401	MCPA	94-74-6	80	U 80	260
10401	MCPP (Mecoprop)	93-65-2	79	U 79	260
10401	2,4,5-T	93-76-5	0.11	U 0.11	0.18
10401	2,4,5-TP	93-72-1	0.079	U 0.079	0.18

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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



Analysis Report

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

Sample Description: SL-125-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3911 SDG#: DE039-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
statistical limits of 0-36%, the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to interfering peaks on the chromatogram, the values reported for 2,4-DB and 2,4,5-T represent the lowest reporting limits attainable.							

Pesticides/PCBs		SW-846 8081A	ug/kg	U	ug/kg	ug/kg	ug/kg
01363	Aldrin	309-00-2	0.070	U	0.070	0.18	1
01363	Alpha BHC	319-84-6	0.036	U	0.036	0.18	1
01363	Beta BHC	319-85-7	0.12	U	0.12	0.18	1
01363	Gamma BHC - Lindane	58-89-9	0.036	U	0.036	0.18	1
01363	Chlordane	57-74-9	0.84	U	0.84	3.6	1
01363	p,p-DDD	72-54-8	0.13	U	0.13	0.36	1
01363	p,p-DDE	72-55-9	30		1.4	7.2	20
01363	p,p-DDT	50-29-3	1.8	U	1.8	1.8	1
01363	Delta BHC	319-86-8	0.038	U	0.038	0.18	1
01363	Dieldrin	60-57-1	0.30	U	0.30	0.36	1
01363	Endosulfan I	959-98-8	0.064	U	0.064	0.18	1
01363	Endosulfan II	33213-65-9	0.30	U	0.30	0.36	1
01363	Endosulfan Sulfate	1031-07-8	0.070	U	0.070	0.36	1
01363	Endrin	72-20-8	0.070	U	0.070	0.36	1
01363	Endrin Aldehyde	7421-93-4	0.25	U	0.25	0.36	1
01363	Endrin Ketone	53494-70-5	0.070	U	0.070	0.36	1
01363	Heptachlor	76-44-8	0.063	U	0.063	0.18	1
01363	Heptachlor Epoxide	1024-57-3	0.18	U	0.18	0.18	1
01363	Methoxychlor	72-43-5	0.36	U	0.36	1.8	1
01363	Mirex	2385-85-5	0.24	U	0.24	0.36	1
01363	Toxaphene	8001-35-2	2.3	U	2.3	7.0	1

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

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

Pesticides/PCBs		SW-846 8082	ug/kg	U	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	1.1	U	1.1	3.5	1
10225	Aroclor 5442	12642-23-8	1.1	U	1.1	3.5	1
10225	Aroclor 5460	11126-42-4	22		1.1	3.5	1
10225	PCB-1016	12674-11-2	0.35	U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.53	U	0.53	1.8	1
10225	PCB-1232	11141-16-5	0.55	U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.53	U	0.53	1.8	1
10225	PCB-1248	12672-29-6	0.35	U	0.35	1.8	1
10225	PCB-1254	11097-69-1	21		0.35	1.8	1
10225	PCB-1260	11096-82-5	3.1		0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35	U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35	U	0.35	1.8	1

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

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

Sample Description: SL-125-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3911 SDG#: DE039-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,000	5.21	20.7		1
07914	Boron	7440-42-8	2.74 J	0.921	5.18		1
01650	Calcium	7440-70-2	3,340	6.35	20.7		1
01654	Iron	7439-89-6	28,000	9.75	41.4		2
01656	Lithium	7439-93-2	27.9	0.23	2.1		1
01657	Magnesium	7439-95-4	5,570	2.63	10.4		1
06958	Manganese	7439-96-5	375	0.0808	0.518		1
10145	Phosphorus	7723-14-0	795	0.580	10.4		1
01662	Potassium	7440-09-7	5,670	18.6	51.8		1
01667	Sodium	7440-23-5	89.2 J	38.6	104		1
07968	Strontium	7440-24-6	24.6	0.0642	0.518		1
06969	Tin	7440-31-5	2.99 J	1.04	10.4		1
06970	Titanium	7440-32-6	1,510	0.393	1.04		1
10146	Zirconium	7440-67-7	1.36 J	0.870	5.18		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.392	0.0621	0.207		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	9.40	0.0621	0.414		2
06126	Barium	7440-39-3	120	0.112	0.414		2
06127	Beryllium	7440-41-7	0.893	0.0166	0.104		2
06128	Cadmium	7440-43-9	0.489	0.0373	0.104		2
06131	Chromium	7440-47-3	37.2	0.124	0.414		2
06132	Cobalt	7440-48-4	9.90	0.0207	0.104		2
06133	Copper	7440-50-8	21.3	0.0683	0.414		2
06135	Lead	7439-92-1	14.3	0.0108	0.207		2
06138	Molybdenum	7439-98-7	1.26	0.0518	0.104		2
06139	Nickel	7440-02-0	23.4	0.104	0.414		2
06141	Selenium	7782-49-2	0.210 J	0.0414	0.414		2
06142	Silver	7440-22-4	0.414	0.0124	0.104		2
06145	Thallium	7440-28-0	0.522	0.0311	0.104		2
06148	Vanadium	7440-62-2	63.6	0.0228	0.104		2
06149	Zinc	7440-66-6	146	0.580	3.11		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0113 J	0.0029	0.103		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84 U	0.84	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.7		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	

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

Sample Description: SL-125-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3911 SDG#: DE039-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21 mg/kg	1.1 mg/kg	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	496 mV	10.0 mV	10.0 mV	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	6.77 Std. Units	0.0100 Std. Units	0.0100 Std. Units	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	5.3 %	0.50 %	0.50 %	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 17:15	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/04/2011 23:53	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 17:32	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 19:14	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 21:46	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	01/13/2011 00:27	Jamie L Brillhart	20
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 23:41	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1

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

Sample Description: SL-125-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3911 SDG#: DE039-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 20:54	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:44	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/28/2010 17:49	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/28/2010 17:49	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:22	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 02:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 19:12	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 15:58	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1

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

Sample Description: SL-125-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-125-SA5B-SS-0.0-0.5

LLI Sample # SW 6164951
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:00

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3911 SDG#: DE039-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

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

Sample Description: SL-126-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164952
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3912 SDG#: DE039-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U 170	520		1
04688	Benzidine	92-87-5	1,200	U 1,200	3,500		1
04688	Benzoic acid	65-85-0	170	U 170	520		1
04688	Benzyl alcohol	100-51-6	170	U 170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	17	U 17	170		1
04688	Carbazole	86-74-8	17	U 17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U 35	170		1
04688	4-Chloroaniline	106-47-8	70	U 70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	17	U 17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	17	U 17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	17	U 17	170		1
04688	2-Chloronaphthalene	91-58-7	17	U 17	170		1
04688	2-Chlorophenol	95-57-8	17	U 17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U 35	170		1
04688	Dibenzofuran	132-64-9	17	U 17	170		1
04688	1,2-Dichlorobenzene	95-50-1	17	U 17	170		1
04688	1,3-Dichlorobenzene	541-73-1	17	U 17	170		1
04688	1,4-Dichlorobenzene	106-46-7	17	U 17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	100	U 100	350		1
04688	2,4-Dichlorophenol	120-83-2	17	U 17	170		1
04688	2,4-Dimethylphenol	105-67-9	35	U 35	170		1
04688	3,5-Dimethylphenol	108-68-9	35	U 35	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U 170	520		1
04688	2,4-Dinitrophenol	51-28-5	700	U 700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U 35	170		1
04688	2,6-Dinitrotoluene	606-20-2	17	U 17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	17	U 17	170		1
04688	Hexachlorobenzene	118-74-1	17	U 17	170		1
04688	Hexachlorobutadiene	87-68-3	70	U 70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U 170	520		1
04688	Hexachloroethane	67-72-1	17	U 17	170		1
04688	Isophorone	78-59-1	17	U 17	170		1
04688	2-Methylphenol	95-48-7	35	U 35	170		1
04688	4-Methylphenol	106-44-5	35	U 35	170		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	17	U 17	170		1
04688	3-Nitroaniline	99-09-2	35	U 35	170		1
04688	4-Nitroaniline	100-01-6	70	U 70	170		1
04688	Nitrobenzene	98-95-3	17	U 17	170		1
04688	2-Nitrophenol	88-75-5	17	U 17	170		1
04688	4-Nitrophenol	100-02-7	170	U 170	520		1
04688	N-Nitroso-di-n-propylamine	621-64-7	17	U 17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	17	U 17	170		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	170	U 170	520		1
04688	Phenol	108-95-2	17	U 17	170		1

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

Sample Description: SL-126-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164952
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3912 SDG#: DE039-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	17	U 17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U 35	170		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U 35	170		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U 0.70	1.7		1
10138	Acenaphthylene	208-96-8	0.35	U 0.35	1.7		1
10138	Anthracene	120-12-7	0.35	U 0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.82	J 0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.73	J 0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.7	J 0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U 0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U 0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.3	U 6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U 6.3	19		1
10138	Chrysene	218-01-9	1.5	J 0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U 0.70	1.7		1
10138	Diethylphthalate	84-66-2	6.3	U 6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U 6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	9.6	J 6.3	19		1
10138	Fluoranthene	206-44-0	1.7	J 0.70	1.7		1
10138	Fluorene	86-73-7	0.70	U 0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U 0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.70	U 0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.70	U 0.70	1.7		1
10138	Naphthalene	91-20-3	0.70	U 0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U 0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.3	U 6.3	19		1
10138	Phenanthrene	85-01-8	0.75	J 0.70	1.7		1
10138	Pyrene	129-00-0	1.5	J 0.70	1.7		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.3	U 1.3	3.8
10401	Dalapon	75-99-0	4.6	U 4.6	9.4
10401	2,4-DB	94-82-6	12	U 12	12
10401	Dicamba	1918-00-9	0.48	U 0.48	1.3
10401	Dinoseb	88-85-7	0.84	U 0.84	2.5
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U 0.84	1.8
10401	MCPA	94-74-6	80	U 80	260
10401	MCPP (Mecoprop)	93-65-2	79	U 79	260
10401	2,4,5-T	93-76-5	0.086	U 0.086	0.18
10401	2,4,5-TP	93-72-1	0.079	U 0.079	0.18

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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

Sample Description: SL-126-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164952
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3912 SDG#: DE039-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
statistical limits of 0-36%, the data is reported.							
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
Due to interfering peaks on the chromatogram, the values reported for 2,4-DB and dicamba represent the lowest reporting limits attainable.							
Pesticides/PCBs	SW-846 8081A		ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.069 U	0.069	0.17		1
01363	Alpha BHC	319-84-6	0.036 U	0.036	0.17		1
01363	Beta BHC	319-85-7	0.12 J	0.063	0.17		1
01363	Gamma BHC - Lindane	58-89-9	0.065 J	0.036	0.17		1
01363	Chlordane	57-74-9	0.84 U	0.84	3.6		1
01363	p,p-DDD	72-54-8	0.095 U	0.095	0.36		1
01363	p,p-DDE	72-55-9	1.8 U	1.8	1.8		1
01363	p,p-DDT	50-29-3	0.73 U	0.73	0.73		1
01363	Delta BHC	319-86-8	0.042 J	0.038	0.17		1
01363	Dieldrin	60-57-1	0.16 U	0.16	0.36		1
01363	Endosulfan I	959-98-8	0.046 U	0.046	0.17		1
01363	Endosulfan II	33213-65-9	0.069 U	0.069	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.13 U	0.13	0.36		1
01363	Endrin	72-20-8	0.069 U	0.069	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.30 U	0.30	0.36		1
01363	Endrin Ketone	53494-70-5	0.069 U	0.069	0.36		1
01363	Heptachlor	76-44-8	0.063 U	0.063	0.17		1
01363	Heptachlor Epoxide	1024-57-3	0.11 U	0.11	0.17		1
01363	Methoxychlor	72-43-5	0.36 U	0.36	1.7		1
01363	Mirex	2385-85-5	0.19 U	0.19	0.36		1
01363	Toxaphene	8001-35-2	2.3 U	2.3	6.9		1

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

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	1.0 U	1.0	3.5	1
10225	Aroclor 5442	12642-23-8	1.0 U	1.0	3.5	1
10225	Aroclor 5460	11126-42-4	1.0 U	1.0	3.5	1
10225	PCB-1016	12674-11-2	0.35 U	0.35	1.8	1
10225	PCB-1221	11104-28-2	0.52 U	0.52	1.8	1
10225	PCB-1232	11141-16-5	0.55 U	0.55	1.8	1
10225	PCB-1242	53469-21-9	0.52 U	0.52	1.8	1
10225	PCB-1248	12672-29-6	0.35 U	0.35	1.8	1
10225	PCB-1254	11097-69-1	0.35 U	0.35	1.8	1
10225	PCB-1260	11096-82-5	0.50 J	0.35	1.8	1
10225	PCB-1262	37324-23-5	0.35 U	0.35	1.8	1
10225	PCB-1268	11100-14-4	0.35 U	0.35	1.8	1

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

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

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

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

Sample Description: SL-126-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164952
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3912 SDG#: DE039-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,800	5.23	20.8		1
07914	Boron	7440-42-8	2.45 J	0.925	5.19		1
01650	Calcium	7440-70-2	3,410	6.37	20.8		1
01654	Iron	7439-89-6	28,000	4.89	20.8		1
01656	Lithium	7439-93-2	27.4	0.23	2.1		1
01657	Magnesium	7439-95-4	5,250	2.64	10.4		1
06958	Manganese	7439-96-5	364	0.0810	0.519		1
10145	Phosphorus	7723-14-0	736	0.582	10.4		1
01662	Potassium	7440-09-7	4,480	18.7	51.9		1
01667	Sodium	7440-23-5	100 J	38.8	104		1
07968	Strontium	7440-24-6	23.9	0.0644	0.519		1
06969	Tin	7440-31-5	2.93 J	1.04	10.4		1
06970	Titanium	7440-32-6	1,490	0.395	1.04		1
10146	Zirconium	7440-67-7	4.40 J	0.873	5.19		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.292	0.0623	0.208		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.68	0.0623	0.416		2
06126	Barium	7440-39-3	115	0.112	0.416		2
06127	Beryllium	7440-41-7	0.852	0.0166	0.104		2
06128	Cadmium	7440-43-9	0.387	0.0374	0.104		2
06131	Chromium	7440-47-3	34.5	0.125	0.416		2
06132	Cobalt	7440-48-4	9.55	0.0208	0.104		2
06133	Copper	7440-50-8	19.2	0.0686	0.416		2
06135	Lead	7439-92-1	16.5	0.0108	0.208		2
06138	Molybdenum	7439-98-7	1.11	0.0519	0.104		2
06139	Nickel	7440-02-0	20.6	0.104	0.416		2
06141	Selenium	7782-49-2	0.169 J	0.0416	0.416		2
06142	Silver	7440-22-4	0.342	0.0125	0.104		2
06145	Thallium	7440-28-0	0.435	0.0312	0.104		2
06148	Vanadium	7440-62-2	60.5	0.0229	0.104		2
06149	Zinc	7440-66-6	140	0.582	3.12		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0113 J	0.0030	0.104		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.84 U	0.84	1.0		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.5		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42 J	0.21	1.0		1

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

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

Sample Description: SL-126-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164952
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3912 SDG#: DE039-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	506	10.0	10.0		1
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.82	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	4.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 17:50	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/05/2011 00:27	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 17:59	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 19:42	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 22:01	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/28/2010 23:59	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1

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

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

Sample Description: SL-126-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-126-SA5B-SS-0.0-0.5

LLI Sample # SW 6164952
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 14:20

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3912 SDG#: DE039-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:48	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/28/2010 17:52	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/28/2010 17:52	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:23	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201A	01/08/2011 03:04	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201A	01/06/2011 19:36	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11001243201A	01/04/2011 16:22	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11007007201A	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201A	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

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

Sample Description: SL-129-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3913 SDG#: DE039-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	530		1
04688	Benzidine	92-87-5	1,200	U 1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U 180	530		1
04688	Benzyl alcohol	100-51-6	180	U 180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U 35	180		1
04688	4-Chloroaniline	106-47-8	70	U 70	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U 35	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U 35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U 35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	530		1
04688	2,4-Dinitrophenol	51-28-5	700	U 700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U 35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	70	U 70	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	530		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	35	U 35	180		1
04688	4-Methylphenol	106-44-5	35	U 35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	35	U 35	180		1
04688	4-Nitroaniline	100-01-6	70	U 70	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	530		1
04688	Phenol	108-95-2	18	U 18	180		1

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

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

Sample Description: SL-129-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3913 SDG#: DE039-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U 35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U 35	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.70	U 0.70	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U 0.35	1.8		1
10138	Anthracene	120-12-7	0.35	U 0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	0.70	U 0.70	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.70	U 0.70	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U 0.70	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.70	U 0.70	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	0.70	U 0.70	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.3	U 6.3	19		1
10138	Di-n-butylphthalate	84-74-2	6.3	U 6.3	19		1
10138	Chrysene	218-01-9	0.35	U 0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.70	U 0.70	1.8		1
10138	Diethylphthalate	84-66-2	6.3	U 6.3	19		1
10138	Dimethylphthalate	131-11-3	6.3	U 6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.3	U 6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U 0.70	1.8		1
10138	Fluorene	86-73-7	0.70	U 0.70	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.70	U 0.70	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.70	U 0.70	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.70	U 0.70	1.8		1
10138	Naphthalene	91-20-3	0.70	U 0.70	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.70	U 0.70	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.3	U 6.3	19		1
10138	Phenanthrene	85-01-8	0.70	U 0.70	1.8		1
10138	Pyrene	129-00-0	0.70	U 0.70	1.8		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.3	U 1.3	3.8
10401	Dalapon	75-99-0	4.6	U 4.6	9.5
10401	2,4-DB	94-82-6	17	U 17	17
10401	Dicamba	1918-00-9	0.42	U 0.42	1.3
10401	Dinoseb	88-85-7	0.84	U 0.84	2.5
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U 0.84	1.8
10401	MCPA	94-74-6	590	80	260
10401	MCPP (Mecoprop)	93-65-2	79	U 79	260
10401	2,4,5-T	93-76-5	0.14	U 0.14	0.18
10401	2,4,5-TP	93-72-1	0.079	U 0.079	0.18

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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

Sample Description: SL-129-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3913 SDG#: DE039-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
statistical limits of 0-36%, the data is reported. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to interfering peaks on the chromatogram, the values reported for 2,4-DB and 2,4,5-T represent the lowest reporting limits attainable.							
Pesticides/PCBs		SW-846 8081A		ug/kg	ug/kg	ug/kg	ug/kg
01363	Aldrin	309-00-2	0.070 U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.036 U	0.036	0.18		1
01363	Beta BHC	319-85-7	0.065 J	0.063	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.058 J	0.036	0.18		1
01363	Chlordane	57-74-9	8.4 U	8.4	36		10
01363	p,p-DDD	72-54-8	0.99 J	0.70	3.6		10
01363	p,p-DDE	72-55-9	210	7.0	36		100
01363	p,p-DDT	50-29-3	7.9	0.70	3.6		10
01363	Delta BHC	319-86-8	0.093 J	0.038	0.18		1
01363	Dieldrin	60-57-1	1.0 J	0.70	3.6		10
01363	Endosulfan I	959-98-8	0.46 U	0.46	1.8		10
01363	Endosulfan II	33213-65-9	0.70 U	0.70	3.6		10
01363	Endosulfan Sulfate	1031-07-8	1.8 J	0.70	3.6		10
01363	Endrin	72-20-8	0.70 U	0.70	3.6		10
01363	Endrin Aldehyde	7421-93-4	0.86 J	0.70	3.6		10
01363	Endrin Ketone	53494-70-5	0.70 U	0.70	3.6		10
01363	Heptachlor	76-44-8	0.063 U	0.063	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.36 U	0.36	1.8		10
01363	Methoxychlor	72-43-5	3.6 U	3.6	18		10
01363	Mirex	2385-85-5	0.70 U	0.70	3.6		10
01363	Toxaphene	8001-35-2	23 U	23	70		10

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

Pesticides/PCBs		SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	11 U	11	35		10
10225	Aroclor 5442	12642-23-8	11 U	11	35		10
10225	Aroclor 5460	11126-42-4	18 J	11	35		10
10225	PCB-1016	12674-11-2	3.5 U	3.5	18		10
10225	PCB-1221	11104-28-2	5.3 U	5.3	18		10
10225	PCB-1232	11141-16-5	5.5 U	5.5	18		10
10225	PCB-1242	53469-21-9	5.3 U	5.3	18		10
10225	PCB-1248	12672-29-6	3.5 U	3.5	18		10
10225	PCB-1254	11097-69-1	3.5 U	3.5	18		10
10225	PCB-1260	11096-82-5	7.6 U	7.6	18		10
10225	PCB-1262	37324-23-5	3.5 U	3.5	18		10
10225	PCB-1268	11100-14-4	3.5 U	3.5	18		10

Due to interfering peaks on the chromatogram, the values reported represent the lowest reporting limits attainable.

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	19,800	5.11	20.3		1

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

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

Sample Description: SL-129-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3913 SDG#: DE039-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals			mg/kg		mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	2.49	J	0.904	5.08		1
01650	Calcium	7440-70-2	3,200		6.22	20.3		1
01654	Iron	7439-89-6	25,100		9.56	40.6		2
01656	Lithium	7439-93-2	27.3		0.22	2.0		1
01657	Magnesium	7439-95-4	5,120		2.58	10.2		1
06958	Manganese	7439-96-5	377		0.0792	0.508		1
10145	Phosphorus	7723-14-0	740		0.569	10.2		1
01662	Potassium	7440-09-7	4,580		18.3	50.8		1
01667	Sodium	7440-23-5	84.5	J	37.9	102		1
07968	Strontium	7440-24-6	24.1		0.0630	0.508		1
06969	Tin	7440-31-5	2.55	J	1.02	10.2		1
06970	Titanium	7440-32-6	1,450		0.386	1.02		1
10146	Zirconium	7440-67-7	1.62	J	0.853	5.08		1
SW-846 6010B			mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.403		0.0627	0.209		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.								
06125	Arsenic	7440-38-2	10.9		0.0627	0.418		2
06126	Barium	7440-39-3	120		0.113	0.418		2
06127	Beryllium	7440-41-7	1.03		0.0167	0.105		2
06128	Cadmium	7440-43-9	0.468		0.0376	0.105		2
06131	Chromium	7440-47-3	38.0		0.125	0.418		2
06132	Cobalt	7440-48-4	10.4		0.0209	0.105		2
06133	Copper	7440-50-8	21.9		0.0690	0.418		2
06135	Lead	7439-92-1	16.0		0.0109	0.209		2
06138	Molybdenum	7439-98-7	1.23		0.0523	0.105		2
06139	Nickel	7440-02-0	22.6		0.105	0.418		2
06141	Selenium	7782-49-2	0.242	J	0.0418	0.418		2
06142	Silver	7440-22-4	0.133		0.0125	0.105		2
06145	Thallium	7440-28-0	0.491		0.0314	0.105		2
06148	Vanadium	7440-62-2	64.6		0.0230	0.105		2
06149	Zinc	7440-66-6	157		0.585	3.14		2
SW-846 7471A			mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0101	J	0.0029	0.103		1
Wet Chemistry			mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.2		0.84	1.1		1
EPA 314.0			ug/kg		ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5	U	9.5	31.7		1
SW-846 7199			mg/kg		mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.47	J	0.21	1.1		1

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

Sample Description: SL-129-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3913 SDG#: DE039-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.	n.a.	509	10.0	10.0		1
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.56	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	5.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 22:13	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/05/2011 01:02	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 18:27	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 20:09	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 23:41	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/29/2010 23:55	Jamie L Brillhart	10
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	01/07/2011 20:16	Jamie L Brillhart	100
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/29/2010 00:18	Lindsey K Lafferty	10
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1

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

Sample Description: SL-129-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3913 SDG#: DE039-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 20:58	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:51	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/28/2010 17:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/28/2010 17:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:24	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201B	01/08/2011 03:18	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201B	01/06/2011 20:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 16:30	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	110070072301B	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201B	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1

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



Analysis Report

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

Sample Description: SL-129-SA5B-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-129-SA5B-SS-0.0-0.5

LLI Sample # SW 6164953
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:45

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3913 SDG#: DE039-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

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



Analysis Report

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

Sample Description: SL-128-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3914 SDG#: DE039-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	530		1
04688	Benzidine	92-87-5	1,200	U 1,200	3,500		1
04688	Benzoic acid	65-85-0	180	U 180	530		1
04688	Benzyl alcohol	100-51-6	180	U 180	530		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	35	U 35	180		1
04688	4-Chloroaniline	106-47-8	71	U 71	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	35	U 35	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	350		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	35	U 35	180		1
04688	3,5-Dimethylphenol	108-68-9	35	U 35	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	530		1
04688	2,4-Dinitrophenol	51-28-5	710	U 710	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	35	U 35	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	71	U 71	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	530		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	35	U 35	180		1
04688	4-Methylphenol	106-44-5	35	U 35	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	35	U 35	180		1
04688	4-Nitroaniline	100-01-6	71	U 71	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	530		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	530		1
04688	Phenol	108-95-2	18	U 18	180		1

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

Sample Description: SL-128-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3914 SDG#: DE039-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	35	U 35	180		1
04688	2,4,6-Trichlorophenol	88-06-2	35	U 35	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.71	U 0.71	1.8		1
10138	Acenaphthylene	208-96-8	0.35	U 0.35	1.8		1
10138	Anthracene	120-12-7	0.41	J 0.35	1.8		1
10138	Benzo(a)anthracene	56-55-3	1.8	U 0.71	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.5	J 0.71	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	4.5	U 0.71	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.4	J 0.71	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.4	J 0.71	1.8		1
10138	Butylbenzylphthalate	85-68-7	10	J 6.4	19		1
10138	Di-n-butylphthalate	84-74-2	7.0	J 6.4	19		1
10138	Chrysene	218-01-9	4.9	U 0.35	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.71	U 0.71	1.8		1
10138	Diethylphthalate	84-66-2	6.4	U 6.4	19		1
10138	Dimethylphthalate	131-11-3	6.4	U 6.4	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	110	U 6.4	19		1
10138	Fluoranthene	206-44-0	7.8	U 0.71	1.8		1
10138	Fluorene	86-73-7	0.71	U 0.71	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.1	J 0.71	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.71	U 0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.86	J 0.71	1.8		1
10138	Naphthalene	91-20-3	0.98	J 0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71	U 0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4	U 6.4	19		1
10138	Phenanthrene	85-01-8	3.4	U 0.71	1.8		1
10138	Pyrene	129-00-0	5.8	U 0.71	1.8		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.3	U 1.3	3.8
10401	Dalapon	75-99-0	4.7	U 4.7	9.5
10401	2,4-DB	94-82-6	39	U 39	39
10401	Dicamba	1918-00-9	0.42	J 0.42	1.3
10401	Dinoseb	88-85-7	0.85	U 0.85	2.5
10401	2,4-DP (Dichlorprop)	120-36-5	0.85	U 0.85	1.8
10401	MCPA	94-74-6	3,200	U 81	270
10401	MCPP (Mecoprop)	93-65-2	80	U 80	270
10401	2,4,5-T	93-76-5	0.30	U 0.30	0.30
10401	2,4,5-TP	93-72-1	0.080	U 0.080	0.18

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

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

Sample Description: SL-128-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3914 SDG#: DE039-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
<p>The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: Dicamba and 2,4,5-T</p>							
Pesticides/PCBs		SW-846 8081A	ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.070 U	0.070	0.18		1
01363	Alpha BHC	319-84-6	0.18 U	0.18	0.18		1
01363	Beta BHC	319-85-7	0.22	0.064	0.18		1
01363	Gamma BHC - Lindane	58-89-9	0.036 U	0.036	0.18		1
01363	Chlordane	57-74-9	3.8 U	3.8	3.8		1
01363	p,p-DDD	72-54-8	0.097 U	0.097	0.36		1
01363	p,p-DDE	72-55-9	2.4 U	2.4	2.4		1
01363	p,p-DDT	50-29-3	0.90 U	0.90	0.90		1
01363	Delta BHC	319-86-8	0.038 U	0.038	0.18		1
01363	Dieldrin	60-57-1	0.070 U	0.070	0.36		1
01363	Endosulfan I	959-98-8	0.047 U	0.047	0.18		1
01363	Endosulfan II	33213-65-9	0.070 U	0.070	0.36		1
01363	Endosulfan Sulfate	1031-07-8	0.070 U	0.070	0.36		1
01363	Endrin	72-20-8	0.070 U	0.070	0.36		1
01363	Endrin Aldehyde	7421-93-4	0.31 U	0.31	0.36		1
01363	Endrin Ketone	53494-70-5	0.070 U	0.070	0.36		1
01363	Heptachlor	76-44-8	0.064 U	0.064	0.18		1
01363	Heptachlor Epoxide	1024-57-3	0.12 U	0.12	0.18		1
01363	Methoxychlor	72-43-5	0.36 U	0.36	1.8		1
01363	Mirex	2385-85-5	0.26 U	0.26	0.36		1
01363	Toxaphene	8001-35-2	2.3 U	2.3	7.0		1

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

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.5
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.5
10225	Aroclor 5460	11126-42-4	9.8	1.1	3.5
10225	PCB-1016	12674-11-2	0.35 U	0.35	1.8
10225	PCB-1221	11104-28-2	0.53 U	0.53	1.8
10225	PCB-1232	11141-16-5	0.55 U	0.55	1.8
10225	PCB-1242	53469-21-9	0.53 U	0.53	1.8
10225	PCB-1248	12672-29-6	0.35 U	0.35	1.8
10225	PCB-1254	11097-69-1	5.4	0.35	1.8
10225	PCB-1260	11096-82-5	2.7	0.35	1.8
10225	PCB-1262	37324-23-5	0.35 U	0.35	1.8
10225	PCB-1268	11100-14-4	0.35 U	0.35	1.8

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Sample Description: SL-128-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3914 SDG#: DE039-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	19,700	5.13	20.4		1
07914	Boron	7440-42-8	2.87 J	0.907	5.10		1
01650	Calcium	7440-70-2	3,290	6.25	20.4		1
01654	Iron	7439-89-6	26,100	9.61	40.8		2
01656	Lithium	7439-93-2	25.0	0.22	2.0		1
01657	Magnesium	7439-95-4	5,090	2.59	10.2		1
06958	Manganese	7439-96-5	394	0.0795	0.510		1
10145	Phosphorus	7723-14-0	587	0.571	10.2		1
01662	Potassium	7440-09-7	5,080	18.4	51.0		1
01667	Sodium	7440-23-5	78.0 J	38.0	102		1
07968	Strontium	7440-24-6	25.6	0.0632	0.510		1
06969	Tin	7440-31-5	3.05 J	1.02	10.2		1
06970	Titanium	7440-32-6	1,480	0.387	1.02		1
10146	Zirconium	7440-67-7	1.38 J	0.857	5.10		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.233	0.0630	0.210		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	8.40	0.0630	0.420		2
06126	Barium	7440-39-3	128	0.113	0.420		2
06127	Beryllium	7440-41-7	0.838	0.0168	0.105		2
06128	Cadmium	7440-43-9	0.307	0.0378	0.105		2
06131	Chromium	7440-47-3	46.1	0.126	0.420		2
06132	Cobalt	7440-48-4	10.3	0.0210	0.105		2
06133	Copper	7440-50-8	19.9	0.0693	0.420		2
06135	Lead	7439-92-1	16.6	0.0109	0.210		2
06138	Molybdenum	7439-98-7	1.16	0.0525	0.105		2
06139	Nickel	7440-02-0	27.5	0.105	0.420		2
06141	Selenium	7782-49-2	0.225 J	0.0420	0.420		2
06142	Silver	7440-22-4	0.0991 J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.479	0.0315	0.105		2
06148	Vanadium	7440-62-2	59.1	0.0231	0.105		2
06149	Zinc	7440-66-6	118	0.588	3.15		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0117 J	0.0030	0.105		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.85 U	0.85	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.5 U	9.5	31.8		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	

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Sample Description: SL-128-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
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Project Name: SSFL Area IV Collocated Soil Sampling

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CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
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Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3914 SDG#: DE039-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.1	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	502	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	6.65	0.0100	0.0100	Std. Units	1
Wet Chemistry							
11624	28a Moisture Content by 160.3	n.a.	5.7	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 22:48	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/05/2011 01:36	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 18:54	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 20:37	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/30/2010 00:09	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/29/2010 00:36	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1

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Sample Description: SL-128-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
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Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3914 SDG#: DE039-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 21:01	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 19:55	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/28/2010 18:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/28/2010 18:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/28/2010 18:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:54	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:54	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:25	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201B	01/08/2011 04:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201B	01/06/2011 21:36	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 16:46	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	110070072301B	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201B	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1

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

Sample Description: SL-128-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-128-SA5B-SS-0.0-0.5

LLI Sample # SW 6164954
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 13:35

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3914 SDG#: DE039-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

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

Sample Description: SED-027-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3915 SDG#: DE039-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580		1
04688	Benzidine	92-87-5	1,400	U 1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U 190	580		1
04688	Benzyl alcohol	100-51-6	190	U 190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U 39	190		1
04688	4-Chloroaniline	106-47-8	77	U 77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U 39	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U 39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U 39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U 39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	39	U 39	190		1
04688	4-Methylphenol	106-44-5	39	U 39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	39	U 39	190		1
04688	4-Nitroaniline	100-01-6	77	U 77	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	580		1
04688	Phenol	108-95-2	19	U 19	190		1

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

Sample Description: SED-027-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3915 SDG#: DE039-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U 39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U 39	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U 0.39	1.9		1
10138	Anthracene	120-12-7	0.39	U 0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U 0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.94	J 0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U 0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21		1
10138	Chrysene	218-01-9	0.85	J 0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	13	J 6.9	21		1
10138	Fluoranthene	206-44-0	0.94	J 0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U 0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U 0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U 0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U 0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9	U 6.9	21		1
10138	Phenanthrene	85-01-8	1.0	J 0.77	1.9		1
10138	Pyrene	129-00-0	0.77	U 0.77	1.9		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC was observed. Comparable data was not observed between the two extractions. The data reported here is from the initial extraction of the sample.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.4	U 1.4	4.2
10401	Dalapon	75-99-0	5.1	U 5.1	10
10401	2,4-DB	94-82-6	8.9	U 8.9	8.9
10401	Dicamba	1918-00-9	1.3	J 0.46	1.4
10401	Dinoseb	88-85-7	0.93	U 0.93	2.8
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U 0.93	2.0
10401	MCPA	94-74-6	240	U 240	290
10401	MCPP (Mecoprop)	93-65-2	140	U 140	290
10401	2,4,5-T	93-76-5	0.095	U 0.095	0.20
10401	2,4,5-TP	93-72-1	0.23	0.087	0.20

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory

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

Sample Description: SED-027-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3915 SDG#: DE039-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
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statistical limits of 0-36%, the data is reported. Due to interfering peaks on the chromatogram, the values reported for 2,4-DB represent the lowest reporting limits attainable. When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: MCPP and MCPA.

Pesticides/PCBs		SW-846 8081A	ug/kg	U	ug/kg	ug/kg	ug/kg
01363	Aldrin	309-00-2	0.076	U	0.076	0.19	1
01363	Alpha BHC	319-84-6	0.039	U	0.039	0.19	1
01363	Beta BHC	319-85-7	0.069	U	0.069	0.19	1
01363	Gamma BHC - Lindane	58-89-9	0.045	U	0.045	0.19	1
01363	Chlordane	57-74-9	4.2	U	4.2	4.2	1
01363	p,p-DDD	72-54-8	0.20	U	0.20	0.39	1
01363	p,p-DDE	72-55-9	0.69	U	0.69	0.69	1
01363	p,p-DDT	50-29-3	2.2	U	2.2	2.2	1
01363	Delta BHC	319-86-8	0.24	U	0.042	0.19	1
01363	Dieldrin	60-57-1	0.22	U	0.22	0.39	1
01363	Endosulfan I	959-98-8	0.051	U	0.051	0.19	1
01363	Endosulfan II	33213-65-9	0.13	U	0.13	0.39	1
01363	Endosulfan Sulfate	1031-07-8	0.49	U	0.076	0.39	1
01363	Endrin	72-20-8	0.076	U	0.076	0.39	1
01363	Endrin Aldehyde	7421-93-4	0.61	U	0.61	0.61	1
01363	Endrin Ketone	53494-70-5	0.076	U	0.076	0.39	1
01363	Heptachlor	76-44-8	0.093	U	0.093	0.19	1
01363	Heptachlor Epoxide	1024-57-3	0.39	U	0.39	0.39	1
01363	Methoxychlor	72-43-5	1.3	U	1.3	1.9	1
01363	Mirex	2385-85-5	0.61	U	0.61	0.61	1
01363	Toxaphene	8001-35-2	2.5	U	2.5	7.6	1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs		SW-846 8082	ug/kg	U	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	2.3	U	2.3	7.6	2
10225	Aroclor 5442	12642-23-8	2.3	U	2.3	7.6	2
10225	Aroclor 5460	11126-42-4	3.6	J	2.3	7.6	2
10225	PCB-1016	12674-11-2	0.76	U	0.76	3.9	2
10225	PCB-1221	11104-28-2	1.2	U	1.2	3.9	2
10225	PCB-1232	11141-16-5	1.2	U	1.2	3.9	2
10225	PCB-1242	53469-21-9	1.2	U	1.2	3.9	2
10225	PCB-1248	12672-29-6	6.0	U	6.0	6.0	2
10225	PCB-1254	11097-69-1	11	U	0.76	3.9	2
10225	PCB-1260	11096-82-5	3.1	U	3.1	3.1	2
10225	PCB-1262	37324-23-5	0.76	U	0.76	3.9	2
10225	PCB-1268	11100-14-4	0.76	U	0.76	3.9	2

When the concentration detected on the primary and confirmation

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

Sample Description: SED-027-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3915 SDG#: DE039-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
<p>column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: PCB-1248 and PCB-1260. The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.</p>							
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,500	5.82	23.1		1
07914	Boron	7440-42-8	4.15 J	1.03	5.79		1
01650	Calcium	7440-70-2	3,280	7.09	23.1		1
01654	Iron	7439-89-6	21,200	5.45	23.1		1
01656	Lithium	7439-93-2	24.6	0.25	2.3		1
01657	Magnesium	7439-95-4	5,510	2.94	11.6		1
06958	Manganese	7439-96-5	308	0.0903	0.579		1
10145	Phosphorus	7723-14-0	446	0.648	11.6		1
01662	Potassium	7440-09-7	3,150	20.8	57.9		1
01667	Sodium	7440-23-5	86.1 J	43.2	116		1
07968	Strontium	7440-24-6	18.0	0.0718	0.579		1
06969	Tin	7440-31-5	2.57 J	1.16	11.6		1
06970	Titanium	7440-32-6	1,250	0.440	1.16		1
10146	Zirconium	7440-67-7	1.31 J	0.972	5.79		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.164 J	0.0681	0.227		2
<p>Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.</p>							
06125	Arsenic	7440-38-2	6.17	0.0681	0.454		2
06126	Barium	7440-39-3	126	0.123	0.454		2
06127	Beryllium	7440-41-7	0.500	0.0182	0.113		2
06128	Cadmium	7440-43-9	0.259	0.0408	0.113		2
06131	Chromium	7440-47-3	26.8	0.136	0.454		2
06132	Cobalt	7440-48-4	7.14	0.0227	0.113		2
06133	Copper	7440-50-8	10.6	0.0749	0.454		2
06135	Lead	7439-92-1	16.2	0.0118	0.227		2
06138	Molybdenum	7439-98-7	0.731	0.0567	0.113		2
06139	Nickel	7440-02-0	15.8	0.113	0.454		2
06141	Selenium	7782-49-2	0.225 J	0.0454	0.454		2
06142	Silver	7440-22-4	0.146	0.0136	0.113		2
06145	Thallium	7440-28-0	0.347	0.0340	0.113		2
06148	Vanadium	7440-62-2	54.9	0.0250	0.113		2
06149	Zinc	7440-66-6	88.1	0.635	3.40		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0513 J	0.0032	0.111		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.1 J	0.93	1.2		1

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

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

Sample Description: SED-027-SIV-SD-0.0-0.5 Sediment
 SSFL Area IV Collocated Soil Sampling
 SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3915 SDG#: DE039-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	ug/kg	ug/kg	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	mg/kg	mg/kg	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	501	mV	mV	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	6.96	Std. Units	Std. Units	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	13.6	%	%	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 23:23	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/05/2011 02:11	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 19:22	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 21:05	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/30/2010 00:22	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/29/2010 00:55	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1

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

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

Sample Description: SED-027-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3915 SDG#: DE039-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 20:06	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 12:58	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 12:58	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 12:58	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 12:58	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:26	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201B	01/08/2011 04:43	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201B	01/06/2011 22:00	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 17:18	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	110070072301B	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201B	01/05/2011 13:20	Nancy J Shoop	1

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

Sample Description: SED-027-SIV-SD-0.0-0.5 Sediment
 SSFL Area IV Collocated Soil Sampling
 SED-027-SIV-SD-0.0-0.5

LLI Sample # SW 6164955
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:59

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3915 SDG#: DE039-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103A	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403A	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

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

Sample Description: SED-026-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3916 SDG#: DE039-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580		1
04688	Benzidine	92-87-5	1,400	U 1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U 190	580		1
04688	Benzyl alcohol	100-51-6	190	U 190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U 39	190		1
04688	4-Chloroaniline	106-47-8	77	U 77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U 39	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U 39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U 39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U 39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	47	J 19	390		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	39	U 39	190		1
04688	4-Methylphenol	106-44-5	39	U 39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	39	U 39	190		1
04688	4-Nitroaniline	100-01-6	77	U 77	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	580		1

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

Sample Description: SED-026-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3916 SDG#: DE039-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U 39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U 39	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U 0.39	1.9		1
10138	Anthracene	120-12-7	1.0	J 0.39	1.9		1
10138	Benzo(a)anthracene	56-55-3	3.1	0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.3	0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	5.6	0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	1.6	J 0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.8	J 0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	9.1	J 7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U 7.0	21		1
10138	Chrysene	218-01-9	5.1	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U 7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U 7.0	21		1
10138	Fluoranthene	206-44-0	8.6	0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J 0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U 0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U 0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U 0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U 0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U 7.0	21		1
10138	Phenanthrene	85-01-8	3.9	U 0.77	1.9		1
10138	Pyrene	129-00-0	6.1	0.77	1.9		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	1.4	U 1.4	4.2
10401	Dalapon	75-99-0	5.1	U 5.1	10
10401	2,4-DB	94-82-6	1.3	U 1.3	2.0
10401	Dicamba	1918-00-9	0.57	J 0.46	1.4
10401	Dinoseb	88-85-7	0.93	U 0.93	2.8
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U 0.93	2.0
10401	MCPA	94-74-6	1,200	88	290
10401	MCPP (Mecoprop)	93-65-2	87	U 87	290
10401	2,4,5-T	93-76-5	0.20	U 0.20	0.20
10401	2,4,5-TP	93-72-1	0.087	U 0.087	0.20

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

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



Analysis Report

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

Sample Description: SED-026-SIV-SD-0.0-0.5 Sediment
 SSFL Area IV Collocated Soil Sampling
 SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3916 SDG#: DE039-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.							
When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: dicamba, 2,4,5-T and 2,4-DB.							
Pesticides/PCBs	SW-846 8081A		ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.077 U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.066 J	0.039	0.19		1
01363	Beta BHC	319-85-7	0.070 U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039 U	0.039	0.19		1
01363	Chlordane	57-74-9	0.93 U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.21 U	0.21	0.39		1
01363	p,p-DDE	72-55-9	1.9 U	1.9	1.9		1
01363	p,p-DDT	50-29-3	4.4	0.38	2.0		5
01363	Delta BHC	319-86-8	0.17 U	0.17	0.19		1
01363	Dieldrin	60-57-1	0.87 U	0.87	0.87		1
01363	Endosulfan I	959-98-8	0.051 U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.092 U	0.092	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.44 U	0.44	0.44		1
01363	Endrin	72-20-8	0.077 U	0.077	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.64 U	0.64	0.64		1
01363	Endrin Ketone	53494-70-5	0.077 U	0.077	0.39		1
01363	Heptachlor	76-44-8	0.070 U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.16 U	0.16	0.19		1
01363	Methoxychlor	72-43-5	0.49 U	0.49	1.9		1
01363	Mirex	2385-85-5	0.42 U	0.42	0.42		1
01363	Toxaphene	8001-35-2	2.6 U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported. Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	2.3 U	2.3	7.7	2
10225	Aroclor 5442	12642-23-8	2.3 U	2.3	7.7	2
10225	Aroclor 5460	11126-42-4	22	2.3	7.7	2
10225	PCB-1016	12674-11-2	0.77 U	0.77	3.9	2
10225	PCB-1221	11104-28-2	1.2 U	1.2	3.9	2
10225	PCB-1232	11141-16-5	1.2 U	1.2	3.9	2
10225	PCB-1242	53469-21-9	1.2 U	1.2	3.9	2
10225	PCB-1248	12672-29-6	17	0.77	3.9	2
10225	PCB-1254	11097-69-1	18	0.77	3.9	2
10225	PCB-1260	11096-82-5	12	0.77	3.9	2
10225	PCB-1262	37324-23-5	0.77 U	0.77	3.9	2
10225	PCB-1268	11100-14-4	0.77 U	0.77	3.9	2

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

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

Sample Description: SED-026-SIV-SD-0.0-0.5 Sediment
 SSFL Area IV Collocated Soil Sampling
 SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3916 SDG#: DE039-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	15,500	5.78	23.0		1
07914	Boron	7440-42-8	4.12	1.02	5.74		1
01650	Calcium	7440-70-2	3,130	7.04	23.0		1
01654	Iron	7439-89-6	22,200	5.41	23.0		1
01656	Lithium	7439-93-2	25.7	0.25	2.3		1
01657	Magnesium	7439-95-4	4,510	2.92	11.5		1
06958	Manganese	7439-96-5	340	0.0896	0.574		1
10145	Phosphorus	7723-14-0	437	0.643	11.5		1
01662	Potassium	7440-09-7	3,830	20.7	57.4		1
01667	Sodium	7440-23-5	112	42.8	115		1
07968	Strontium	7440-24-6	20.6	0.0712	0.574		1
06969	Tin	7440-31-5	2.97	1.15	11.5		1
06970	Titanium	7440-32-6	1,290	0.436	1.15		1
10146	Zirconium	7440-67-7	0.965	0.965	5.74		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.128	0.0689	0.230		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.61	0.0689	0.459		2
06126	Barium	7440-39-3	150	0.124	0.459		2
06127	Beryllium	7440-41-7	0.666	0.0184	0.115		2
06128	Cadmium	7440-43-9	0.260	0.0413	0.115		2
06131	Chromium	7440-47-3	24.3	0.138	0.459		2
06132	Cobalt	7440-48-4	7.27	0.0230	0.115		2
06133	Copper	7440-50-8	11.3	0.0758	0.459		2
06135	Lead	7439-92-1	19.5	0.0119	0.230		2
06138	Molybdenum	7439-98-7	0.940	0.0574	0.115		2
06139	Nickel	7440-02-0	15.0	0.115	0.459		2
06141	Selenium	7782-49-2	0.177	0.0459	0.459		2
06142	Silver	7440-22-4	0.575	0.0138	0.115		2
06145	Thallium	7440-28-0	0.465	0.0345	0.115		2
06148	Vanadium	7440-62-2	46.8	0.0253	0.115		2
06149	Zinc	7440-66-6	105	0.643	3.45		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.614	0.0033	0.114		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.7	0.93	1.2		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	10.4	34.8		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	

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

Sample Description: SED-026-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3916 SDG#: DE039-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.2	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	422	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	7.28	0.0100	0.0100	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	13.8	0.50	0.50	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/14/2011 23:57	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/05/2011 02:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	12/29/2010 19:50	Michele D Hamilton	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103570025A	01/05/2011 21:33	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	12/30/2010 00:37	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103510029A	01/07/2011 20:31	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/29/2010 01:13	Lindsey K Lafferty	2
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103510029A	12/20/2010 07:00	Joseph S Feister	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1

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

Sample Description: SED-026-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3916 SDG#: DE039-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	103570025A	12/27/2010 01:40	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 20:10	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 13:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/28/2010 18:06	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 13:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 13:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 13:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:27	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201B	01/08/2011 04:57	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201B	01/06/2011 22:24	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 17:34	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	110070072301B	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201B	01/05/2011 13:20	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103B	12/16/2010 14:00	Michelle L Lalli	1

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



Analysis Report

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

Sample Description: SED-026-SIV-SD-0.0-0.5 Sediment
SSFL Area IV Collocated Soil Sampling
SED-026-SIV-SD-0.0-0.5

LLI Sample # SW 6164956
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 15:22

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3916 SDG#: DE039-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403B	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	10350162401A	12/16/2010 09:20	William C Schwebel	1

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

Sample Description: SL-060-SA5C-SB-10.0-11.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
 LLI Group # 1225546
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6 U	6.6	7.9		0.87
06192	Benzene	71-43-2	0.1 U	0.1	4.0		0.87
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0		0.87
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0		0.87
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0		0.87
06192	Bromoform	75-25-2	0.40 U	0.40	4.0		0.87
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0		0.87
06192	2-Butanone	78-93-3	1.2 U	1.2	7.9		0.87
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0		0.87
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0		0.87
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0		0.87
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0		0.87
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0		0.87
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0		0.87
06192	Chloroform	67-66-3	0.12 U	0.12	4.0		0.87
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0		0.87
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0		0.87
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0		0.87
06192	Chlorotrifluoroethene	79-38-9	0.50 U	0.50	5.0		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70 U	0.70	4.0		0.87
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0		0.87
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0		0.87
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0		0.87
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	4.0		0.87
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0		0.87
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0		0.87
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0		0.87
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0		0.87
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0		0.87
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0		0.87
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0		0.87
06192	Freon 113	76-13-1	0.11 U	0.11	4.0		0.87
06192	Freon 133a	75-88-7	0.50 U	0.50	5.0		0.87
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0		0.87
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.9		0.87
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0		0.87
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	7.9		0.87
06192	Methylene Chloride	75-09-2	3.3 J	0.24	4.0		0.87
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0		0.87

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

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

Sample Description: SL-060-SA5C-SB-10.0-11.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B							
06192	Styrene	100-42-5	0.1 U	0.1	4.0		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0		0.87
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0		0.87
06192	Toluene	108-88-3	0.08 U	0.08	4.0		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0		0.87
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0		0.87
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	4.0		0.87
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0		0.87
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0		0.87
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0		0.87
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	4.7 U	4.7	14		20.39
GC/MS Semivolatiles EPA 1625C							
11622	N-Nitrosodimethylamine	62-75-9	74.9	19.1	38.3		1
GC/MS Semivolatiles SW-846 8270C							
04688	Aniline	62-53-3	190	U 190	570		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U 190	570		1
04688	Benzyl alcohol	100-51-6	190	U 190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	77	U 77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570		1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300		1

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

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

Sample Description: SL-060-SA5C-SB-10.0-11.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1
04688	4-Nitroaniline	100-01-6	77	U 77	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U 190	570		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U 0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U 0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U 0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21		1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U 6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U 0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9		1

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Sample Description: SL-060-SA5C-SB-10.0-11.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	1-Methylnaphthalene	90-12-0	0.77 U	0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77 U	0.77	1.9		1
10138	Naphthalene	91-20-3	0.77 U	0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77 U	0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.9 U	6.9	21		1
10138	Phenanthrene	85-01-8	0.77 U	0.77	1.9		1
10138	Pyrene	129-00-0	0.77 U	0.77	1.9		1

The recoveries of several compounds were outside of QC limits in the LCS. This sample was re-extracted outside of the method required holding time, and acceptable QC and comparable data were observed. The data reported here is from the initial extraction of the sample.

GC Volatiles		TPH GRO SW-846 8015B mod	mg/kg	mg/kg	mg/kg	mg/kg
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1.1	23.81

Explosives		SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	86 U	86	170	1000000 0
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	57 U	57	170	1000000 0
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	340	1000000 0
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	340	1000000 0
10132	1,3-Dinitrobenzene	99-65-0	57 U	57	170	1000000 0
10132	2,4-Dinitrotoluene	121-14-2	57 U	57	170	1000000 0
10132	2,6-Dinitrotoluene	606-20-2	57 U	57	170	1000000 0
10132	HMX	2691-41-0	140 U	140	430	1000000 0
10132	Nitrobenzene	98-95-3	57 U	57	170	1000000 0
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,400	1000000 0
10132	2-Nitrotoluene	88-72-2	110 U	110	170	1000000 0
10132	3-Nitrotoluene	99-08-1	140 U	140	170	1000000 0
10132	4-Nitrotoluene	99-99-0	110 U	110	170	1000000 0
10132	PETN	78-11-5	1,100 U	1,100	3,400	1000000 0
10132	RDX	121-82-4	72 U	72	170	1000000 0
10132	Tetryl	479-45-8	88 U	88	170	1000000 0

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 SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
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E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
		SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg	
10132	1,3,5-Trinitrobenzene	99-35-4	57	U 57	170	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	57	U 57	170	1000000	1
HPLC Organics							
		SW-846 8315A	ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by	8315A 50-00-0	690	U 690	1,700		1
Pesticides/PCBs							
		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.8		1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.8		1
10225	Aroclor 5460	11126-42-4	1.1	U 1.1	3.8		1
10225	PCB-1016	12674-11-2	0.38	U 0.38	2.0		1
10225	PCB-1221	11104-28-2	0.57	U 0.57	2.0		1
10225	PCB-1232	11141-16-5	0.60	U 0.60	2.0		1
10225	PCB-1242	53469-21-9	0.57	U 0.57	2.0		1
10225	PCB-1248	12672-29-6	0.38	U 0.38	2.0		1
10225	PCB-1254	11097-69-1	1.2	J 0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38	U 0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38	U 0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38	U 0.38	2.0		1
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram. The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.46	U 0.46	1.4		1
10199	EFH (C15-C20)	n.a.	0.46	U 0.46	1.4		1
10199	EFH (C21-C30)	n.a.	3.6	U 0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	8.9	U 0.46	1.4		1
10199	EFH (C8-C11)	n.a.	0.46	U 0.46	1.4		1
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110	U 110	570		1
10501	Isopropanol	67-63-0	110	U 110	570		1
10501	Methanol	67-56-1	160	J 110	570		1
GC Miscellaneous							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.7	U 5.7	14		1
08283	Ethylene glycol	107-21-1	5.7	U 5.7	14		1
08283	Propylene glycol	57-55-6	5.7	U 5.7	14		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Terphenyls							
		SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	

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 SSFL Area IV Collocated Soil Sampling
 SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls			SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	2.6	U	2.6	6.0		1
10318	o-Terphenyl	84-15-1	2.6	U	2.6	6.0		1
10318	p-Terphenyl	92-94-4	2.6	U	2.6	6.0		1
Reporting limits were raised due to limited sample volume.								
Metals			SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	16,400		5.55	22.1		1
07914	Boron	7440-42-8	0.988	J	0.983	5.52		1
01650	Calcium	7440-70-2	4,230		6.77	22.1		1
01654	Iron	7439-89-6	25,900		10.4	44.2		2
01656	Lithium	7439-93-2	31.9		0.24	2.2		1
01657	Magnesium	7439-95-4	6,480		2.80	11.0		1
06958	Manganese	7439-96-5	387		0.0861	0.552		1
10145	Phosphorus	7723-14-0	537		0.618	11.0		1
01662	Potassium	7440-09-7	3,500		19.9	55.2		1
01667	Sodium	7440-23-5	133		41.2	110		1
07968	Strontium	7440-24-6	22.3		0.0684	0.552		1
06969	Tin	7440-31-5	2.92	J	1.10	11.0		1
06970	Titanium	7440-32-6	1,610		0.420	1.10		1
10146	Zirconium	7440-67-7	0.927	U	0.927	5.52		1
			SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.391		0.0662	0.221		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.								
06125	Arsenic	7440-38-2	12.5		0.0662	0.442		2
06126	Barium	7440-39-3	183		0.119	0.442		2
06127	Beryllium	7440-41-7	0.913		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.220		0.0397	0.110		2
06131	Chromium	7440-47-3	37.4		0.132	0.442		2
06132	Cobalt	7440-48-4	11.7		0.0221	0.110		2
06133	Copper	7440-50-8	19.2		0.0729	0.442		2
06135	Lead	7439-92-1	12.3		0.0115	0.221		2
06138	Molybdenum	7439-98-7	1.12		0.0552	0.110		2
06139	Nickel	7440-02-0	23.8		0.110	0.442		2
06141	Selenium	7782-49-2	0.268	J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0336	J	0.0132	0.110		2
06145	Thallium	7440-28-0	0.657		0.0331	0.110		2
06148	Vanadium	7440-62-2	71.0		0.0243	0.110		2
06149	Zinc	7440-66-6	119		0.618	3.31		2
			SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0032	U	0.0032	0.110		1
Wet Chemistry			EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.95	J	0.92	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3	J	0.92	1.7		1

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Analysis Report

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

Sample Description: SL-060-SA5C-SB-10.0-11.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

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 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3917 SDG#: DE039-17*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3 ug/kg	34.4 ug/kg	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23 mg/kg	1.1 mg/kg	mg/kg	1
SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20 mg/kg	0.55 mg/kg	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	423	10.0 mV	10.0 mV	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	7.41	0.0100 Std. Units	0.0100 Std. Units	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	12.9	0.50 %	0.50 %	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-060-SA5C-SB-10.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103501AA	12/16/2010 21:39	Laura M Krieger	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103511AA	12/17/2010 13:40	Jason M Long	20.39
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201034923319	12/15/2010 22:50	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201034923319	12/15/2010 22:43	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10361SLB026	01/05/2011 20:07	Timothy J Trees	1

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E3917 SDG#: DE039-17*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10354SLF026	01/15/2011 00:32	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10354SLI026	01/05/2011 03:20	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10361SLB026	12/27/2010 08:15	Joseph S Feister	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10354SLI026	12/21/2010 07:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10354SLF026	12/21/2010 07:00	Kerrie A Freeburn	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	10349A34B	12/17/2010 16:02	Elizabeth J Marin	23.81
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201034923319	12/15/2010 22:42	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103550019A	12/24/2010 12:22	Michele D Hamilton	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103510021A	12/23/2010 01:22	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103540019A	12/29/2010 01:32	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103540019A	12/21/2010 02:00	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103510021A	12/19/2010 15:30	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103550019A	12/21/2010 15:45	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103570006A	12/27/2010 16:11	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103540002A	12/21/2010 00:48	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103510010A	12/21/2010 17:40	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103550027A	12/24/2010 02:43	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	2	103570006A	12/23/2010 17:00	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103550027A	12/22/2010 07:00	Kerrie A Freeburn	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103510010A	12/17/2010 12:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	2	103540002A	12/20/2010 15:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
07914	Boron	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
01650	Calcium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
01654	Iron	SW-846 6010B	1	103515708009	12/23/2010 21:05	John P Hook	2
01656	Lithium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
06958	Manganese	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
10145	Phosphorus	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
01662	Potassium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
01667	Sodium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
07968	Strontium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
06969	Tin	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
06970	Titanium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
10146	Zirconium	SW-846 6010B	1	103515708009	12/22/2010 20:13	John P Hook	1
06124	Antimony	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2

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SL-060-SA5C-SB-10.0-11.0

LLI Sample # SW 6164957
LLI Group # 1225546
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 12/14/2010 16:18

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

Submitted: 12/15/2010 09:40

Reported: 01/19/2011 11:07

E3917 SDG#: DE039-17*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103511026004D	12/26/2010 13:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103511026004C	12/26/2010 13:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103511026004B	12/26/2010 13:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103511026004A	12/26/2010 13:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103515711005	12/20/2010 10:29	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103515708009	12/19/2010 20:17	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103511026004	12/17/2010 20:20	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103515711005	12/19/2010 22:30	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11007007201B	01/08/2011 05:12	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11007007201B	01/08/2011 05:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11005005201B	01/06/2011 22:48	Ashley M Adams	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11001243201A	01/04/2011 17:50	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10361102202B	12/27/2010 20:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	110070072301B	01/07/2011 14:05	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11005005201B	01/05/2011 13:20	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10361102202B	12/27/2010 17:40	Erik J Frederiksen	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10350182103B	12/16/2010 14:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10350039403B	12/16/2010 14:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11001243201A	01/01/2011 07:40	Daniel S Smith	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11005162401A	01/05/2011 18:13	Scott W Freisher	1

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: B103501AA	Sample number(s): 6164941-6164942, 6164945-6164947, 6164957								
Acetone	6.7 U	6.7	8.0	ug/kg	189	181	32-209	5	30
Benzene	0.10 U	0.10	4.0	ug/kg	105	105	80-120	0	30
Bromobenzene	0.13 U	0.13	4.0	ug/kg	93	92	79-120	1	30
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	101	101	79-124	0	30
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	98	97	78-120	0	30
Bromoform	0.40 U	0.40	4.0	ug/kg	95	94	70-120	1	30
Bromomethane	0.25 U	0.25	4.0	ug/kg	76	77	32-162	2	30
2-Butanone	1.2 U	1.2	8.0	ug/kg	144	139	46-153	3	30
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	100	99	72-120	1	30
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	99	99	75-120	0	30
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	94	95	75-120	1	30
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	103	102	69-122	1	30
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	98	98	80-120	0	30
Chloroethane	0.13 U	0.13	4.0	ug/kg	80	82	37-154	2	30
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	106	103	43-146	3	30
Chloroform	0.37 J	0.12	4.0	ug/kg	104	103	80-120	0	30
Chloromethane	0.33 U	0.33	4.0	ug/kg	89	90	54-132	0	30
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	96	96	78-120	1	30
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	96	95	79-120	0	30
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	84	85	22-131	2	30
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	97	94	58-120	4	30
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	97	95	77-120	2	30
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	99	97	80-120	2	30
Dibromomethane	0.24 U	0.24	4.0	ug/kg	102	100	80-120	2	30
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	95	95	79-120	0	30
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	93	93	78-120	0	30
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	95	93	79-120	1	30
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	76	75	20-120	1	30
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	104	104	80-120	1	30
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	103	102	71-129	1	30
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	101	100	73-123	1	30
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	103	102	80-120	2	30
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	102	101	79-120	0	30
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	104	103	80-120	1	30
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	100	99	80-120	1	30
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	102	101	72-123	1	30
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	104	104	77-120	1	30
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	94	96	80-120	2	30
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	95	94	77-120	1	30
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	100	100	80-120	0	30
Freon 113	0.11 U	0.11	4.0	ug/kg	101	100	61-126	1	30
Freon 133a	0.50 U	0.50	5.0	ug/kg	85	85	78-120	1	30
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	90	91	57-120	1	30
2-Hexanone	1.6 U	1.6	8.0	ug/kg	95	93	45-155	3	30
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	101	100	76-120	1	30
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	99	100	75-120	1	30

*- Outside of specification

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

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	101	100	74-121	1	30
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	84	82	61-134	3	30
Methylene Chloride	1.0 J	0.24	4.0	ug/kg	99	100	76-124	1	30
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	101	101	77-120	0	30
Styrene	0.10 U	0.10	4.0	ug/kg	97	97	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	98	97	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	97	95	71-123	2	30
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	100	98	77-120	2	30
Toluene	0.08 U	0.08	4.0	ug/kg	101	100	80-120	0	30
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	92	92	64-120	0	30
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	90	91	68-120	0	30
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	103	101	71-125	2	30
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	99	96	80-120	2	30
Trichloroethene	0.15 U	0.15	4.0	ug/kg	101	100	80-120	0	30
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	86	85	58-133	1	30
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	99	95	71-123	4	30
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	98	99	79-120	1	30
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	98	98	78-120	0	30
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	88	88	53-120	0	30
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	101	100	80-120	1	30
o-Xylene	0.17 U	0.17	4.0	ug/kg	98	96	80-120	2	30
Batch number: E103502AA Sample number(s): 6164943-6164944									
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	98		60-132		
Batch number: E103511AA Sample number(s): 6164941-6164942,6164945-6164947,6164957									
1,4-Dioxane	5.0 U	5.0	15	ug/kg	102	101	70-130	1	30
Batch number: Y103512AA Sample number(s): 6164944									
Acetone	6 U	6.	20	ug/l	186	190	49-234	2	30
Benzene	0.5 U	0.5	5	ug/l	96	95	79-120	1	30
Bromobenzene	1 U	1.	5	ug/l	103	103	80-120	0	30
Bromochloromethane	1 U	1.	5	ug/l	94	92	80-120	2	30
Bromodichloromethane	1 U	1.	5	ug/l	91	91	80-120	0	30
Bromoform	1 U	1.	5	ug/l	93	92	61-120	2	30
Bromomethane	1 U	1.	5	ug/l	87	79	44-120	10	30
2-Butanone	3 U	3.	10	ug/l	125	130	66-151	4	30
n-Butylbenzene	1 U	1.	5	ug/l	100	100	74-120	1	30
sec-Butylbenzene	1 U	1.	5	ug/l	107	106	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	97	97	80-120	0	30
Carbon Tetrachloride	1 U	1.	5	ug/l	99	96	75-123	3	30
Chlorobenzene	0.8 U	0.8	5	ug/l	94	95	80-120	0	30
Chloroethane	1 U	1.	5	ug/l	82	75	49-129	9	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	101	102	56-129	1	30
Chloroform	0.8 U	0.8	5	ug/l	98	96	77-122	2	30
Chloromethane	1 U	1.	5	ug/l	83	81	60-129	2	30
2-Chlorotoluene	1 U	1.	5	ug/l	104	103	80-120	1	30
4-Chlorotoluene	1 U	1.	5	ug/l	99	99	80-120	0	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	73	76	38-136	4	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	105	108	66-120	3	30
Dibromochloromethane	1 U	1.	5	ug/l	94	94	80-120	1	30
1,2-Dibromoethane	1 U	1.	5	ug/l	97	99	80-120	2	30
Dibromomethane	1 U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	96	95	80-120	1	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	102	100	80-120	2	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	99	98	80-120	1	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	77	72	47-120	6	30
1,1-Dichloroethane	1 U	1.	5	ug/l	98	97	79-120	1	30

*- Outside of specification

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

<u>Analysis Name</u>	<u>Blank Result</u>		<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,2-Dichloroethane	1	U	1.	5	ug/l	96	95	70-130	1	30
1,1-Dichloroethene	0.8	U	0.8	5	ug/l	100	103	74-123	4	30
cis-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	97	96	80-120	1	30
trans-1,2-Dichloroethene	0.8	U	0.8	5	ug/l	95	95	80-120	0	30
1,2-Dichloropropane	1	U	1.	5	ug/l	93	93	78-120	0	30
1,3-Dichloropropane	1	U	1.	5	ug/l	98	99	80-120	1	30
2,2-Dichloropropane	1	U	1.	5	ug/l	91	90	77-124	2	30
1,1-Dichloropropene	1	U	1.	5	ug/l	98	95	80-120	2	30
cis-1,3-Dichloropropene	1	U	1.	5	ug/l	87	87	80-120	0	30
trans-1,3-Dichloropropene	1	U	1.	5	ug/l	93	92	79-120	0	30
Ethylbenzene	0.8	U	0.8	5	ug/l	98	97	79-120	2	30
Freon 113	2	U	2.	10	ug/l	112	115	69-128	3	30
Freon 133a	2	U	2.	5	ug/l	98	99	77-120	2	30
Hexachlorobutadiene	2	U	2.	5	ug/l	93	96	58-120	3	30
2-Hexanone	3	U	3.	10	ug/l	116	120	65-136	3	30
Isopropylbenzene	1	U	1.	5	ug/l	96	96	77-120	1	30
p-Isopropyltoluene	1	U	1.	5	ug/l	103	102	80-120	1	30
Methyl Tertiary Butyl Ether	0.5	U	0.5	5	ug/l	94	95	76-120	1	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	97	97	70-121	0	30
Methylene Chloride	2	U	2.	5	ug/l	98	100	80-120	3	30
n-Propylbenzene	1	U	1.	5	ug/l	110	108	80-120	1	30
Styrene	1	U	1.	5	ug/l	97	95	80-120	1	30
1,1,1,2-Tetrachloroethane	1	U	1.	5	ug/l	97	97	80-120	0	30
1,1,2,2-Tetrachloroethane	1	U	1.	5	ug/l	106	107	71-120	1	30
Tetrachloroethene	0.8	U	0.8	5	ug/l	98	97	80-121	1	30
Toluene	0.7	U	0.7	5	ug/l	98	98	79-120	0	30
1,2,3-Trichlorobenzene	1	U	1.	5	ug/l	95	97	65-120	2	30
1,2,4-Trichlorobenzene	1	U	1.	5	ug/l	95	97	67-120	2	30
1,1,1-Trichloroethane	0.8	U	0.8	5	ug/l	98	97	75-127	1	30
1,1,2-Trichloroethane	0.8	U	0.8	5	ug/l	100	100	80-120	0	30
Trichloroethene	1	U	1.	5	ug/l	94	92	80-120	2	30
Trichlorofluoromethane	2	U	2.	5	ug/l	89	89	64-129	0	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	109	109	80-120	0	30
1,2,4-Trimethylbenzene	1	U	1.	5	ug/l	105	104	74-120	1	30
1,3,5-Trimethylbenzene	1	U	1.	5	ug/l	103	102	75-120	1	30
Vinyl Chloride	1	U	1.	5	ug/l	79	78	65-125	1	30
m+p-Xylene	0.8	U	0.8	5	ug/l	93	93	80-120	1	30
o-Xylene	0.8	U	0.8	5	ug/l	94	94	80-120	0	30

Batch number: 10350WAB026

Sample number(s): 6164944

Aniline	1	U	1.	5	ug/l	67	66	49-101	1	30
Benzidine	20	U	20.	60	ug/l	64	62	20-109	3	30
Benzoic acid	6	U	6.	15	ug/l	30	48	10-69	44*	30
Benzyl alcohol	5	U	5.	15	ug/l	79	91	66-97	14	30
4-Bromophenyl-phenylether	1	U	1.	5	ug/l	86	107	82-117	22	30
Carbazole	1	U	1.	5	ug/l	92	110	81-114	18	30
4-Chloro-3-methylphenol	1	U	1.	5	ug/l	89	112	70-123	22	30
4-Chloroaniline	1	U	1.	5	ug/l	51	58	42-124	14	30
bis(2-Chloroethoxy)methane	1	U	1.	5	ug/l	89	109	74-124	20	30
bis(2-Chloroethyl)ether	1	U	1.	5	ug/l	90	105	77-108	16	30
bis(2-Chloroisopropyl)ether	1	U	1.	5	ug/l	92	105	62-127	13	30
2-Chloronaphthalene	2	U	2.	5	ug/l	77	81	54-132	5	30
2-Chlorophenol	1	U	1.	5	ug/l	91	109*	77-108	18	30
4-Chlorophenyl-phenylether	2	U	2.	5	ug/l	90	111	82-111	21	30
Dibenzofuran	1	U	1.	5	ug/l	91	111*	83-108	20	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	84	94	67-108	12	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	83	93	63-110	12	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	82	93	65-113	12	30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
3,3'-Dichlorobenzidine	2 U	2.	5	ug/l	53	57	49-111	9	30
2,4-Dichlorophenol	1 U	1.	5	ug/l	96	117*	80-109	20	30
2,4-Dimethylphenol	3 U	3.	10	ug/l	96	117*	72-110	20	30
3,5-Dimethylphenol	3 U	3.	10	ug/l	93	117	70-130	23	30
4,6-Dinitro-2-methylphenol	5 U	5.	15	ug/l	86	102	78-119	17	30
2,4-Dinitrophenol	10 U	10.	30	ug/l	77	91	64-120	16	30
2,4-Dinitrotoluene	1 U	1.	5	ug/l	93	110	81-115	17	30
2,6-Dinitrotoluene	1 U	1.	5	ug/l	90	110	85-115	20	30
1,2-Diphenylhydrazine	1 U	1.	5	ug/l	96	118*	78-116	21	30
Hexachlorobenzene	1 U	1.	5	ug/l	88	108	81-118	20	30
Hexachlorobutadiene	1 U	1.	5	ug/l	81	92	57-124	13	30
Hexachlorocyclopentadiene	5 U	5.	15	ug/l	71	77	10-118	8	30
Hexachloroethane	1 U	1.	5	ug/l	80	91	52-113	13	30
Isophorone	1 U	1.	5	ug/l	91	114	74-117	22	30
2-Methylphenol	1 U	1.	5	ug/l	85	102*	64-101	18	30
4-Methylphenol	2 U	2.	5	ug/l	76	93	61-103	21	30
2-Nitroaniline	1 U	1.	5	ug/l	91	111	83-116	20	30
3-Nitroaniline	1 U	1.	5	ug/l	88	101	74-113	14	30
4-Nitroaniline	1 U	1.	5	ug/l	74	82	59-100	11	30
Nitrobenzene	1 U	1.	5	ug/l	90	104	75-109	14	30
2-Nitrophenol	1 U	1.	5	ug/l	91	108	86-120	18	30
4-Nitrophenol	10 U	10.	30	ug/l	44	53	16-78	19	30
N-Nitroso-di-n-propylamine	1 U	1.	5	ug/l	89	108	69-110	19	30
N-Nitrosodiphenylamine	2 U	2.	5	ug/l	91	111	67-136	20	30
Pentachlorophenol	3 U	3.	15	ug/l	75	84	53-110	12	30
Phenol	1 U	1.	5	ug/l	40	47	29-67	17	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	85	100	71-112	16	30
2,4,5-Trichlorophenol	1 U	1.	5	ug/l	90	108*	79-107	19	30
2,4,6-Trichlorophenol	1 U	1.	5	ug/l	93	110	81-113	17	30

Batch number: 10350WAH026

Sample number(s): 6164944

Acenaphthene	0.010 U	0.010	0.050	ug/l	75	78	74-109	3	30
Acenaphthylene	0.010 U	0.010	0.050	ug/l	80	82	70-110	3	30
Anthracene	0.010 U	0.010	0.050	ug/l	77	78	66-111	1	30
Benzo(a)anthracene	0.010 U	0.010	0.050	ug/l	78	79	72-114	1	30
Benzo(a)pyrene	0.010 U	0.010	0.050	ug/l	73	79	64-115	8	30
Benzo(b)fluoranthene	0.010 U	0.010	0.050	ug/l	79	75	69-123	5	30
Benzo(g,h,i)perylene	0.010 U	0.010	0.050	ug/l	73	69	68-125	5	30
Benzo(k)fluoranthene	0.010 U	0.010	0.050	ug/l	75	71*	72-122	5	30
Butylbenzylphthalate	0.055 J	0.050	1.0	ug/l	71	73	70-130	2	30
Di-n-butylphthalate	0.050 U	0.050	1.0	ug/l	80	80	70-130	0	30
Chrysene	0.010 U	0.010	0.050	ug/l	75*	77	76-116	2	30
Dibenz(a,h)anthracene	0.010 U	0.010	0.050	ug/l	75	69*	71-125	8	30
Diethylphthalate	0.050 U	0.050	1.0	ug/l	67*	65*	70-130	3	30
Dimethylphthalate	0.050 U	0.050	1.0	ug/l	67*	71	70-130	5	30
Bis(2-Ethylhexyl)phthalate	0.050 U	0.050	1.0	ug/l	86	87	70-130	0	30
Fluoranthene	0.010 U	0.010	0.050	ug/l	78	67*	75-116	16	30
Fluorene	0.010 U	0.010	0.050	ug/l	79	78	75-114	2	30
Indeno(1,2,3-cd)pyrene	0.010 U	0.010	0.050	ug/l	74	69	69-124	7	30
1-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	77	69*	71-117	11	30
2-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	71*	66*	75-115	7	30
Naphthalene	0.010 U	0.010	0.050	ug/l	74	75	72-109	1	30
N-Nitrosodimethylamine	0.010 U	0.010	0.050	ug/l	59*	58*	70-130	1	30
Di-n-octylphthalate	0.050 U	0.050	1.0	ug/l	74	71	70-130	5	30
Phenanthrene	0.010 U	0.010	0.050	ug/l	77	78	76-111	2	30
Pyrene	0.010 U	0.010	0.050	ug/l	72	72	69-118	1	30

Batch number: 10354SLF026

Sample number(s): 6164941-6164942,6164945-6164957

*- Outside of specification

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Aniline	170 U	170.	500	ug/kg	46		10-107		
Benzidine	1,200 U	1,200.	3,300	ug/kg	42		15-121		
Benzoic acid	170 U	170.	500	ug/kg	92		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	86		68-111		
4-Bromophenyl-phenylether	17	U 17.	170	ug/kg	93		79-117		
Carbazole	17	U 17.	170	ug/kg	105		77-113		
4-Chloro-3-methylphenol	33	U 33.	170	ug/kg	100		74-119		
4-Chloroaniline	67	U 67.	170	ug/kg	65		10-110		
bis(2-Chloroethoxy)methane	17	U 17.	170	ug/kg	99		70-118		
bis(2-Chloroethyl)ether	17	U 17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17	U 17.	170	ug/kg	88		68-131		
2-Chloronaphthalene	17	U 17.	170	ug/kg	86		67-127		
2-Chlorophenol	17	U 17.	170	ug/kg	91		72-112		
4-Chlorophenyl-phenylether	33	U 33.	170	ug/kg	97		79-110		
Dibenzofuran	17	U 17.	170	ug/kg	101		79-108		
1,2-Dichlorobenzene	17	U 17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17	U 17.	170	ug/kg	87		70-98		
1,4-Dichlorobenzene	17	U 17.	170	ug/kg	89		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	47		38-105		
2,4-Dichlorophenol	17	U 17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33	U 33.	170	ug/kg	100		72-111		
3,5-Dimethylphenol	33	U 33.	170	ug/kg	106		70-130		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	89		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	88		37-120		
2,4-Dinitrotoluene	33	U 33.	170	ug/kg	107		73-115		
2,6-Dinitrotoluene	17	U 17.	170	ug/kg	105		79-115		
1,2-Diphenylhydrazine	17	U 17.	170	ug/kg	106		77-111		
bis(2-Ethylhexyl)phthalate	17	U 17.	330	ug/kg	106		75-117		
Hexachlorobenzene	17	U 17.	170	ug/kg	99		78-116		
Hexachlorobutadiene	67	U 67.	170	ug/kg	100		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	111		46-115		
Hexachloroethane	17	U 17.	170	ug/kg	93		68-105		
Isophorone	17	U 17.	170	ug/kg	94		69-110		
2-Methylphenol	33	U 33.	170	ug/kg	88		66-110		
4-Methylphenol	33	U 33.	170	ug/kg	88		66-117		
2-Nitroaniline	17	U 17.	170	ug/kg	110		78-116		
3-Nitroaniline	33	U 33.	170	ug/kg	94		62-109		
4-Nitroaniline	67	U 67.	170	ug/kg	69		49-98		
Nitrobenzene	17	U 17.	170	ug/kg	102		71-104		
2-Nitrophenol	17	U 17.	170	ug/kg	98		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	110		56-118		
N-Nitroso-di-n-propylamine	17	U 17.	170	ug/kg	85		63-107		
N-Nitrosodiphenylamine	17	U 17.	170	ug/kg	100		67-141		
Pentachlorophenol	170 U	170.	500	ug/kg	91		35-106		
Phenol	17	U 17.	170	ug/kg	90		58-112		
1,2,4-Trichlorobenzene	17	U 17.	170	ug/kg	98		73-108		
2,4,5-Trichlorophenol	33	U 33.	170	ug/kg	105		76-107		
2,4,6-Trichlorophenol	33	U 33.	170	ug/kg	109		78-111		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10354SLI026	Sample number(s): 6164941-6164942,6164945-6164957								
Acenaphthene	0.67 U	0.67	1.7	ug/kg	72		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	72		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	75		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	77		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	72		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	81		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	61		44-138		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	76		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	75		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	81*		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	77*		79-120		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	61*		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	63*		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	77		70-130		
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	88		67-143		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	76*		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	69*		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	61*		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	73		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	69		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	71		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	68		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	72		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	76		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	88		56-121		
Batch number: 10361SLB026	Sample number(s): 6164941-6164942,6164945-6164946,6164957								
N-Nitrosodimethylamine	16.7 U	16.7	33.3	ng/kg	100		70-130		
Batch number: 10349A34B	Sample number(s): 6164941-6164942,6164945-6164946,6164957								
9a TPH by EPA 8015B Gas C5-C12	0.2 U	0.2	1.0	mg/kg	79	78	67-119	1	30
Batch number: 10350A94A	Sample number(s): 6164943-6164944								
TPH-GRO S.CA water C5-C12	20 U	20.	50	ug/l	91	100	75-135	10	30
Batch number: 103550019A	Sample number(s): 6164941-6164942,6164945-6164946,6164957								
4-Amino-2,6-Dinitrotoluene	75 U	75.	150	ug/kg	106		80-120		
2-Amino-4,6-Dinitrotoluene	50 U	50.	150	ug/kg	107		80-120		
2,6-Diamino-4-nitrotoluene	100 U	100.	300	ug/kg	90	89	54-134	2	30
2,4-Diamino-6-nitrotoluene	100 U	100.	300	ug/kg	90	88	54-134	2	30
1,3-Dinitrobenzene	50 U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50 U	50.	150	ug/kg	103		72-135		
2,6-Dinitrotoluene	50 U	50.	150	ug/kg	108		80-120		
HMX	130 U	130.	380	ug/kg	83		74-130		
Nitrobenzene	50 U	50.	150	ug/kg	102		80-120		
Nitroglycerin	1,000 U	1,000.	3,000	ug/kg	94		80-120		
2-Nitrotoluene	100 U	100.	150	ug/kg	108		78-128		
3-Nitrotoluene	130 U	130.	150	ug/kg	109		73-127		
4-Nitrotoluene	100 U	100.	150	ug/kg	107		80-120		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
PETN	1,000 U	1,000.	3,000	ug/kg	106		80-120		
RDX	63 U	63.	150	ug/kg	106		75-131		
Tetryl	77 U	77.	150	ug/kg	135		70-168		
1,3,5-Trinitrobenzene	50 U	50.	150	ug/kg	121		77-137		
2,4,6-Trinitrotoluene	50 U	50.	150	ug/kg	109		80-120		
Batch number: 103510021A	Sample number(s): 6164941-6164942,6164945-6164946,6164957								
17a Formaldehyde by 8315A	600 U	600.	1,500	ug/kg	100		80-126		
Batch number: 103500036A	Sample number(s): 6164944								
2,4-D	0.16 U	0.16	0.50	ug/l	116	128	45-128	10	30
Dalapon	0.25 U	0.25	1.3	ug/l	81	89	40-100	9	30
2,4-DB	0.30 U	0.30	1.0	ug/l	100	112	41-138	11	30
Dicamba	0.080 U	0.080	0.30	ug/l	124	132	51-144	6	30
Dinoseb	0.10 U	0.10	0.50	ug/l	63	72	23-93	14	30
2,4-DP (Dichlorprop)	0.16 U	0.16	0.50	ug/l	120	136	72-145	13	30
MCPA	300 U	300.	1,000	ug/l	100	112	69-129	11	30
MCPP	50 U	50.	200	ug/l	112	124	66-132	10	30
2,4,5-T	0.015 U	0.015	0.050	ug/l	108	120	53-141	11	30
2,4,5-TP	0.010 U	0.010	0.050	ug/l	112	116	56-135	4	30
Batch number: 103570025A	Sample number(s): 6164948-6164956								
2,4-D	1.2 U	1.2	3.6	ug/kg	144*		40-140		
Dalapon	4.4 U	4.4	9.0	ug/kg	78		24-89		
2,4-DB	0.62 U	0.62	1.7	ug/kg	97		34-138		
Dicamba	0.40 U	0.40	1.2	ug/kg	98		20-164		
Dinoseb	0.80 U	0.80	2.4	ug/kg	8*		10-36		
2,4-DP (Dichlorprop)	0.80 U	0.80	1.7	ug/kg	119		60-141		
MCPA	76 U	76.	250	ug/kg	90		34-113		
MCPP (Mecoprop)	75 U	75.	250	ug/kg	107		29-154		
2,4,5-T	0.082 U	0.082	0.17	ug/kg	96		33-145		
2,4,5-TP	0.075 U	0.075	0.17	ug/kg	98		48-138		
Batch number: 103500020A	Sample number(s): 6164948								
6a Perchlorate EPA 6850	2.1 U	2.1	5.0	ug/kg	99		85-115		
Batch number: 103500016A	Sample number(s): 6164944								
Aldrin	0.0020 U	0.0020	0.010	ug/l	96	101	54-159	5	30
Alpha BHC	0.0030 U	0.0030	0.010	ug/l	101	102	59-146	1	30
Beta BHC	0.0029 U	0.0029	0.010	ug/l	98	101	73-147	3	30
Gamma BHC - Lindane	0.0020 U	0.0020	0.010	ug/l	95	101	68-128	6	30
Chlordane	0.12 U	0.12	0.50	ug/l					
p,p-DDD	0.0050 U	0.0050	0.020	ug/l	100	110	71-139	10	30
p,p-DDE	0.0050 U	0.0050	0.020	ug/l	126	137*	66-130	8	30
p,p-DDT	0.0050 U	0.0050	0.020	ug/l	85	90	53-126	6	30
Delta BHC	0.0029 U	0.0029	0.010	ug/l	103	113	76-148	10	30
Dieldrin	0.0053 U	0.0053	0.020	ug/l	100	100	76-132	0	30
Endosulfan I	0.0043 U	0.0043	0.010	ug/l	78	83	68-128	6	30
Endosulfan II	0.015 U	0.015	0.020	ug/l	90	95	59-144	5	30
Endosulfan Sulfate	0.0058 U	0.0058	0.020	ug/l	95	100	71-142	5	30
Endrin	0.0081 U	0.0081	0.020	ug/l	85	85	52-132	0	30
Endrin Aldehyde	0.020 U	0.020	0.10	ug/l	105	110	68-139	5	20
Endrin Ketone	0.0050 U	0.0050	0.020	ug/l	90	105	69-146	15	30
Heptachlor	0.0026 U	0.0026	0.010	ug/l	93	102	57-126	9	30
Heptachlor Epoxide	0.0023 U	0.0023	0.010	ug/l	98	102	73-156	4	30

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methoxychlor	0.030 U	0.030	0.10	ug/l	91	97	52-133	6	30
Mirex	0.085 U	0.085	0.25	ug/l					
Toxaphene	1.0 U	1.0	3.0	ug/l					

Batch number: 103500017A	Sample number(s): 6164944								
Aroclor 5432	0.10 U	0.10	0.50	ug/l					
Aroclor 5442	0.10 U	0.10	0.50	ug/l	58*	56*	75-125	4	30
Aroclor 5460	0.10 U	0.10	0.50	ug/l					
PCB-1016	0.10 U	0.10	0.50	ug/l	102	100	68-119	2	30
PCB-1221	0.10 U	0.10	0.50	ug/l					
PCB-1232	0.20 U	0.20	0.50	ug/l					
PCB-1242	0.10 U	0.10	0.50	ug/l					
PCB-1248	0.10 U	0.10	0.50	ug/l					
PCB-1254	0.10 U	0.10	0.50	ug/l					
PCB-1260	0.10 U	0.10	0.50	ug/l	112	112	68-121	0	30
PCB-1262	0.20 U	0.20	0.50	ug/l					
PCB-1268	0.16 U	0.16	0.50	ug/l					

Batch number: 103510029A	Sample number(s): 6164948-6164956								
Aldrin	0.066 U	0.066	0.17	ug/kg	87		44-135		
Alpha BHC	0.034 U	0.034	0.17	ug/kg	103		38-130		
Beta BHC	0.060 U	0.060	0.17	ug/kg	88		56-134		
Gamma BHC - Lindane	0.034 U	0.034	0.17	ug/kg	106		46-127		
Chlordane	0.80 U	0.80	3.4	ug/kg					
p,p-DDD	0.066 U	0.066	0.34	ug/kg	104		60-137		
p,p-DDE	0.066 U	0.066	0.34	ug/kg	105		59-141		
p,p-DDT	0.066 U	0.066	0.34	ug/kg	126		54-130		
Delta BHC	0.036 U	0.036	0.17	ug/kg	94		55-144		
Dieldrin	0.066 U	0.066	0.34	ug/kg	101		65-129		
Endosulfan I	0.044 U	0.044	0.17	ug/kg	97		45-123		
Endosulfan II	0.066 U	0.066	0.34	ug/kg	100		63-127		
Endosulfan Sulfate	0.066 U	0.066	0.34	ug/kg	111		72-138		
Endrin	0.066 U	0.066	0.34	ug/kg	118		62-129		
Endrin Aldehyde	0.066 U	0.066	0.34	ug/kg	95		55-132		
Endrin Ketone	0.066 U	0.066	0.34	ug/kg	113		69-139		
Heptachlor	0.060 U	0.060	0.17	ug/kg	121		43-124		
Heptachlor Epoxide	0.034 U	0.034	0.17	ug/kg	103		65-131		
Methoxychlor	0.34 U	0.34	1.7	ug/kg	131*		59-125		
Mirex	0.066 U	0.066	0.34	ug/kg					
Toxaphene	2.2 U	2.2	6.6	ug/kg					

Batch number: 103540019A	Sample number(s): 6164941-6164942, 6164945-6164957								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	58*	55*	75-125	4	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	98		72-120		
PCB-1221	0.50 U	0.50	1.7	ug/kg					
PCB-1232	0.52 U	0.52	1.7	ug/kg					
PCB-1242	0.50 U	0.50	1.7	ug/kg					
PCB-1248	0.33 U	0.33	1.7	ug/kg					
PCB-1254	0.33 U	0.33	1.7	ug/kg					
PCB-1260	0.33 U	0.33	1.7	ug/kg	116		65-137		
PCB-1262	0.33 U	0.33	1.7	ug/kg					
PCB-1268	0.33 U	0.33	1.7	ug/kg					

Batch number: 103570006A	Sample number(s): 6164941-6164942, 6164945-6164946, 6164957								
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	94		66-113		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	98		66-113		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	100		66-113		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	89		66-113		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	75		66-113		
Batch number: 103510010A	Sample number(s): 6164941-6164942,6164945-6164946,6164957								
Diethylene glycol	5.0 U	5.0	13	mg/kg	79		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	79		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	72*		75-125		
Batch number: 103540002A	Sample number(s): 6164941-6164942,6164945-6164946,6164957								
Ethanol	100 U	100.	500	ug/kg	87		75-112		
Isopropanol	100 U	100.	500	ug/kg	90		75-125		
Methanol	100 U	100.	500	ug/kg	78		75-134		
Batch number: 103550027A	Sample number(s): 6164941-6164942,6164945-6164946,6164957								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	100	102	75-125	2	20
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	104	106	75-125	2	20
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	99	101	75-125	2	20
Batch number: 103511026004A	Sample number(s): 6164941-6164942,6164945-6164957								
Antimony	0.0600 U	0.0600	0.200	mg/kg	120		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	101		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	101		82-118		
Cadmium	0.0774 J	0.0360	0.100	mg/kg	114		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	103		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	103		82-118		
Copper	0.0704 J	0.0660	0.400	mg/kg	98		80-120		
Lead	0.0185 J	0.0104	0.200	mg/kg	106		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	108		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	101		66-134		
Thallium	0.0412 J	0.0300	0.100	mg/kg	112		81-119		
Vanadium	0.0507 J	0.0220	0.100	mg/kg	97		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	101		78-122		
Batch number: 103511026004B	Sample number(s): 6164941-6164942,6164945-6164957								
Selenium	0.0400 U	0.0400	0.400	mg/kg	95		79-122		
Batch number: 103511026004C	Sample number(s): 6164941-6164942,6164945-6164957								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	107		78-122		
Batch number: 103511026004D	Sample number(s): 6164941-6164942,6164945-6164957								
Barium	0.108 U	0.108	0.400	mg/kg	101		79-121		
Batch number: 103515708009	Sample number(s): 6164941-6164942,6164945-6164957								
Aluminum	5.03 U	5.03	20.0	mg/kg	100		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	94		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	99		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	109		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	104		81-119		
Phosphorus	1.51 J	0.560	10.0	mg/kg	102		80-120		
Potassium	31.3 J	18.0	50.0	mg/kg	95		78-110		
Sodium	37.3 U	37.3	100	mg/kg	97		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	106		79-121		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Tin	1.41 J	1.00	10.0	mg/kg	103		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	107		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	103		80-120		
Batch number: 103515711005	Sample number(s): 6164941-6164942,6164945-6164957								
Mercury	0.0028 U	0.0028	0.0961	mg/kg	96		88-123		
Batch number: 103545713001	Sample number(s): 6164944								
Mercury	0.000050 U	0.00005	0.00020	mg/l	97		80-120		
Batch number: 103551848003	Sample number(s): 6164944								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	92	90-112	4	20
Boron	0.0138 U	0.0138	0.0500	mg/l	97	94	90-110	3	20
Calcium	0.0960 J	0.0702	0.200	mg/l	102	99	90-112	3	20
Iron	0.0522 U	0.0522	0.200	mg/l	102	98	90-112	4	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	100	98	80-120	2	20
Magnesium	0.0421 J	0.0172	0.100	mg/l	101	98	89-110	3	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	103	101	90-110	3	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	104	102	80-120	2	20
Potassium	0.239 U	0.239	0.500	mg/l	100	99	85-115	2	20
Sodium	0.433 U	0.433	1.00	mg/l	100	100	87-114	0	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	100	97	90-110	3	20
Tin	0.0098 U	0.0098	0.0200	mg/l	103	101	90-110	2	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	105	102	90-113	3	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	101	99	80-120	3	20
Batch number: 103556050002A	Sample number(s): 6164944								
Antimony	0.00030 U	0.00030	0.0010	mg/l	105	110	87-110	5	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	99	106	86-111	7	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	108	103	90-112	5	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	105	110	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	98	102	90-118	4	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	101	104	80-120	3	20
Copper	0.00038 U	0.00038	0.0020	mg/l	104	104	90-113	0	20
Lead	0.000052 U	0.00005	0.0010	mg/l	105	107	90-115	2	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	107	109	90-113	2	20
Silver	0.000080 U	0.00008	0.00050	mg/l	107	108	90-115	2	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	101	101	89-116	0	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	104	108	80-120	4	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	109	105	80-120	4	20
Batch number: 103556050002B	Sample number(s): 6164944								
Selenium	0.00025 U	0.00025	0.0020	mg/l	107	107	85-114	0	20
Batch number: 103556050002C	Sample number(s): 6164944								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	106	103	80-120	2	20
Batch number: 103556050002D	Sample number(s): 6164944								
Barium	0.00038 U	0.00038	0.0020	mg/l	107	106	88-113	1	20
Batch number: 10349113001A	Sample number(s): 6164944								
3b Cr VI by EPA 7199	5.0 U	5.0	10.0	ug/l	99		90-110		
Batch number: 10350196902A	Sample number(s): 6164944								
11b Anions by 300.0 - Fluoride	0.080 U	0.080	0.10	mg/l	100	100	90-110	0	20

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 10352658701A 7b Perchlorate EPA 314.0	Sample number(s): 6164944 0.70 U	0.70	2.0	ug/l	90	91	85-115	1	20
Batch number: 10361102202A 21a Cyanide by 9012B	Sample number(s): 6164941-6164942,6164945 0.13 U	0.13	0.50	mg/kg	105		80-120		
Batch number: 10361102202B 21a Cyanide by 9012B	Sample number(s): 6164946,6164957 0.13 U	0.13	0.50	mg/kg	105		80-120		
Batch number: 11001243201A 3a Cr VI by EPA 7199	Sample number(s): 6164941-6164942,6164945-6164957 0.20 U	0.20	1.0	mg/kg	97		80-120		
Batch number: 11005005201A 7a Perchlorate EPA 314.0	Sample number(s): 6164941-6164942,6164945-6164952 9.0 U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11005005201B 7a Perchlorate EPA 314.0	Sample number(s): 6164953-6164957 9.0 U	9.0	30.0	ug/kg	100		85-115		
Batch number: 11007007201A 11a Anions by 300.0 - Fluoride	Sample number(s): 6164941-6164942,6164945-6164952 0.80 U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		
Batch number: 11007007201B 11a Anions by 300.0 - Fluoride	Sample number(s): 6164953-6164957 0.80 U	0.80	1.0	mg/kg	104		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	104		90-110		
Batch number: 10350039402B 22a pH by 9045C	Sample number(s): 6164941-6164942,6164945-6164946 100						95-105		
Batch number: 10350039403A 22a pH by 9045C	Sample number(s): 6164947-6164955 101						95-105		
Batch number: 10350039403B 22a pH by 9045C	Sample number(s): 6164956-6164957 101						95-105		
Batch number: 10350182102B Oxidation Reduction Potential	Sample number(s): 6164941-6164942,6164945-6164946 100						98-102		
Batch number: 10350182103A Oxidation Reduction Potential	Sample number(s): 6164947-6164955 100						98-102		
Batch number: 10350182103B Oxidation Reduction Potential	Sample number(s): 6164956-6164957 100						98-102		
Batch number: 10350162401A 28a Moisture Content by 160.3	Sample number(s): 6164948-6164956 100						80-120		
Batch number: 10364162402A 28a Moisture Content by 160.3	Sample number(s): 6164942,6164945-6164947 100						80-120		
Batch number: 10364162402B 28a Moisture Content by 160.3	Sample number(s): 6164941 100						80-120		
Batch number: 11005162401A 28a Moisture Content by 160.3	Sample number(s): 6164957 100						80-120		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: B103501AA	Sample number(s): 6164941-6164942,6164945-6164947,6164957 UNSPK: 6164946							
Acetone	176		15-210					
Benzene	108		55-143					
Bromobenzene	92		43-139					
Bromochloromethane	98		60-137					
Bromodichloromethane	99		53-136					
Bromoform	87		38-124					
Bromomethane	80		42-168					
2-Butanone	125		37-163					
n-Butylbenzene	100		30-146					
sec-Butylbenzene	100		33-157					
tert-Butylbenzene	94		41-152					
Carbon Tetrachloride	108		45-153					
Chlorobenzene	99		49-135					
Chloroethane	86		39-152					
2-Chloroethyl Vinyl Ether	90		32-139					
Chloroform	106		61-142					
Chloromethane	101		51-163					
2-Chlorotoluene	97		42-146					
4-Chlorotoluene	97		39-145					
1,2-Dibromo-3-chloropropane	78		30-139					
Dibromochloromethane	94		51-128					
1,2-Dibromoethane	92		54-129					
Dibromomethane	97		57-130					
1,2-Dichlorobenzene	94		36-133					
1,3-Dichlorobenzene	92		34-134					
1,4-Dichlorobenzene	93		35-136					
Dichlorodifluoromethane	83		26-151					
1,1-Dichloroethane	108		63-142					
1,2-Dichloroethane	103		68-131					
1,1-Dichloroethene	114		61-149					
cis-1,2-Dichloroethene	105		60-136					
trans-1,2-Dichloroethene	109		59-142					
1,2-Dichloropropane	104		62-135					
1,3-Dichloropropane	97		58-129					
2,2-Dichloropropane	101		53-147					
1,1-Dichloropropene	108		54-145					
cis-1,3-Dichloropropene	91		51-131					
trans-1,3-Dichloropropene	88		49-129					
Ethylbenzene	101		44-141					
Freon 113	115		56-156					
Hexachlorobutadiene	88		10-155					
2-Hexanone	78		32-160					
Isopropylbenzene	100		38-144					
p-Isopropyltoluene	99		29-152					
Methyl Tertiary Butyl Ether	93		55-129					
4-Methyl-2-pentanone	68		46-139					
Methylene Chloride	101		61-141					
n-Propylbenzene	104		39-157					
Styrene	99		35-134					

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,1,1,2-Tetrachloroethane	99		52-130						
1,1,2,2-Tetrachloroethane	87		40-152						
Tetrachloroethene	101		42-149						
Toluene	104		50-146						
1,2,3-Trichlorobenzene	80		10-140						
1,2,4-Trichlorobenzene	81		10-136						
1,1,1-Trichloroethane	107		64-142						
1,1,2-Trichloroethane	95		54-139						
Trichloroethene	103		53-144						
Trichlorofluoromethane	94		47-163						
1,2,3-Trichloropropane	85		45-154						
1,2,4-Trimethylbenzene	98		37-149						
1,3,5-Trimethylbenzene	99		38-150						
Vinyl Chloride	91		50-154						
m+p-Xylene	102		44-137						
o-Xylene	96		42-137						
Batch number: E103502AA Sample number(s): 6164943-6164944 UNSPK: P165404									
1,4-Dioxane	110	102	50-150	7	30				
Batch number: 10354SLF026 Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941									
Aniline	50	54	14-114	8	30				
Benzidine	27*	40	35-141	37*	30				
Benzoic acid	52	49	10-173	6	30				
Benzyl alcohol	80	84	55-123	4	30				
4-Bromophenyl-phenylether	92	94	67-129	2	30				
Carbazole	102	104	64-120	3	30				
4-Chloro-3-methylphenol	89	88	53-130	1	30				
4-Chloroaniline	70	71	23-95	2	30				
bis(2-Chloroethoxy)methane	96	94	54-117	2	30				
bis(2-Chloroethyl)ether	86	90	60-116	5	30				
bis(2-Chloroisopropyl)ether	83	84	55-142	2	30				
2-Chloronaphthalene	84	84	50-141	1	30				
2-Chlorophenol	87	91	73-121	5	30				
4-Chlorophenyl-phenylether	93	95	64-119	2	30				
Dibenzofuran	96	98	71-112	2	30				
1,2-Dichlorobenzene	86	89	66-108	4	30				
1,3-Dichlorobenzene	85	88	63-109	4	30				
1,4-Dichlorobenzene	87	92	53-113	5	30				
3,3'-Dichlorobenzidine	65	68	25-123	6	30				
2,4-Dichlorophenol	94	95	78-117	1	30				
2,4-Dimethylphenol	89	92	56-130	4	30				
3,5-Dimethylphenol	101	100	70-130	2	30				
4,6-Dinitro-2-methylphenol	82	81	10-148	1	30				
2,4-Dinitrophenol	69	61	20-143	13	30				
2,4-Dinitrotoluene	100	98	57-114	2	30				
2,6-Dinitrotoluene	99	104	69-123	5	30				
1,2-Diphenylhydrazine	102	105	71-129	3	30				
bis(2-Ethylhexyl)phthalate	107	103	63-122	5	30				
Hexachlorobenzene	96	98	61-111	2	30				
Hexachlorobutadiene	99	99	62-120	0	30				
Hexachlorocyclopentadiene	97	108	10-153	11	30				
Hexachloroethane	89	94	57-109	6	30				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Isophorone	90	90	51-118	0	30				
2-Methylphenol	81	86	47-142	6	30				
4-Methylphenol	78	84	55-126	7	30				
2-Nitroaniline	106	103	67-125	3	30				
3-Nitroaniline	98	98	59-122	0	30				
4-Nitroaniline	73	77	52-112	5	30				
Nitrobenzene	99	99	51-114	0	30				
2-Nitrophenol	93	94	74-115	0	30				
4-Nitrophenol	102	101	39-133	1	30				
N-Nitroso-di-n-propylamine	78	82	60-116	4	30				
N-Nitrosodiphenylamine	94	99	86-145	5	30				
Pentachlorophenol	76	83	17-149	9	30				
Phenol	86	89	58-126	3	30				
1,2,4-Trichlorobenzene	95	94	72-115	1	30				
2,4,5-Trichlorophenol	97	99	34-139	2	30				
2,4,6-Trichlorophenol	99	98	49-140	1	30				
Batch number: 10354SLI026 Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941									
Acenaphthene	75	77	63-105	3	30				
Acenaphthylene	78	80	55-126	2	30				
Anthracene	75	78	46-136	4	30				
Benzo(a)anthracene	78	80	39-144	3	30				
Benzo(a)pyrene	72	77	34-156	8	30				
Benzo(b)fluoranthene	84	85	43-155	2	30				
Benzo(g,h,i)perylene	75	79	33-141	5	30				
Benzo(k)fluoranthene	70	74	42-144	5	30				
Butylbenzylphthalate	84	90	73-140	7	30				
Di-n-butylphthalate	84	87	78-160	3	30				
Chrysene	74	77	29-156	4	30				
Dibenz(a,h)anthracene	74	80	41-130	7	30				
Diethylphthalate	70*	72*	87-131	3	30				
Dimethylphthalate	81	85	74-118	4	30				
Bis(2-Ethylhexyl)phthalate	120	95	39-167	24	30				
Fluoranthene	77	80	26-166	4	30				
Fluorene	79	81	45-121	3	30				
Indeno(1,2,3-cd)pyrene	74	79	21-143	5	30				
1-Methylnaphthalene	76	78	72-123	3	30				
2-Methylnaphthalene	70	71	28-121	2	30				
Naphthalene	73	75	61-102	2	30				
N-Nitrosodimethylamine	84	83	48-113	0	30				
Di-n-octylphthalate	80	82	40-192	2	30				
Phenanthrene	75	77	12-165	3	30				
Pyrene	73	77	15-153	5	30				
Batch number: 10361SLB026 Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: 6164941									
N-Nitrosodimethylamine	94	88	70-130	5	30				
Batch number: 10349A34B Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: P163871									
9a TPH by EPA 8015B Gas C5-C12	65	66	39-118	0	30				
Batch number: 103550019A Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: P163871									
4-Amino-2,6-Dinitrotoluene	106	107	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	105	105	80-137	0	50				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
1,3-Dinitrobenzene	103	103	38-166	1	50				
2,4-Dinitrotoluene	100	101	80-131	0	50				
2,6-Dinitrotoluene	107	107	80-127	0	50				
HMX	81	83	63-128	2	50				
Nitrobenzene	100	100	80-125	0	50				
Nitroglycerin	94	93	80-120	0	50				
2-Nitrotoluene	106	105	80-122	1	50				
3-Nitrotoluene	107	106	72-119	1	50				
4-Nitrotoluene	106	106	80-125	0	50				
PETN	108	107	80-121	0	50				
RDX	97	99	75-129	2	50				
Tetryl	131	135	55-174	3	50				
1,3,5-Trinitrobenzene	118	119	82-126	0	50				
2,4,6-Trinitrotoluene	106	107	82-130	1	50				

 Batch number: 103510021A Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: P163871
 17a Formaldehyde by 8315A 97 99 80-120 2 50

 Batch number: 103570025A Sample number(s): 6164948-6164956 UNSPK: P166190
 2,4-D 104 75 28-161 32 35
 Dalapon 87* 82 12-86 6 50
 2,4-DB 184* 119 20-170 43 50
 Dicamba 178* 129* 33-120 32 50
 Dinoseb 15 11 1-44 27 35
 2,4-DP (Dichlorprop) 75 107 55-141 35 50
 MCPA 298* 96 31-184 103* 50
 MCPP (Mecoprop) 126 102 16-174 21 50
 2,4,5-T 71 61 25-132 15 35
 2,4,5-TP 116 83 10-183 33 35

 Batch number: 103500020A Sample number(s): 6164948 UNSPK: 6164948
 6a Perchlorate EPA 6850 100 100 80-120 0 20

 Batch number: 103510029A Sample number(s): 6164948-6164956 UNSPK: P162943
 Aldrin 77 87 16-126 12 50
 Alpha BHC 100 109 10-129 9 50
 Beta BHC 88 97 14-147 10 50
 Gamma BHC - Lindane 100 109 10-140 9 50
 p,p-DDD 80 88 16-163 10 50
 p,p-DDE 90 102 18-161 12 50
 p,p-DDT 103 116 10-176 12 50
 Delta BHC 94 106 23-140 13 50
 Dieldrin 76 84 19-154 10 50
 Endosulfan I 76 82 16-137 8 50
 Endosulfan II 70 76 28-154 9 50
 Endosulfan Sulfate 86 94 21-160 9 50
 Endrin 88 99 11-149 11 50
 Endrin Aldehyde 77 87 10-148 12 35
 Endrin Ketone 82 85 22-165 4 50
 Heptachlor 118 136* 13-126 14 50
 Heptachlor Epoxide 81 90 13-157 11 50
 Methoxychlor 102 114 32-147 11 50

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 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

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Batch number: 103540019A	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: P162864							
PCB-1016	101	104	29-146	3	50			
PCB-1260	105	111	39-149	5	50			
Batch number: 103570006A	Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: P162942							
EFH (C12-C14)	88	86	49-123	3	20			
EFH (C15-C20)	172*	137*	49-123	23*	20			
EFH (C21-C30)	799*	504*	49-123	29*	20			
EFH (C30 - C40)	1486	1361	49-123	6	20			
	(2)	(2)						
EFH (C8-C11)	61	62	49-123	2	20			
Batch number: 103510010A	Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: 6164941							
Diethylene glycol	60	85	59-109	36*	20			
Ethylene glycol	85	88	63-107	3	20			
Propylene glycol	72	73	63-107	1	20			
Batch number: 103540002A	Sample number(s): 6164941-6164942,6164945-6164946,6164957 UNSPK: P163871							
Ethanol	82	84	24-143	3	20			
Isopropanol	84	85	75-125	1	20			
Methanol	75	86	45-136	14	20			
Batch number: 103511026004A	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941							
Antimony	100	84	75-125	12	20	0.150 J	0.133 J	12 (1) 20
Arsenic	292*	228*	75-125	11	20	5.25	7.00	29* 20
Beryllium	197*	149*	75-125	18	20	0.498	0.548	9 20
Cadmium	169*	171*	75-125	3	20	0.0836 J	0.0985	16 (1) 20
Chromium	211*	194*	75-125	3	20	13.2	17.5	28* 20
Cobalt	149*	143*	75-125	1	20	5.28	6.39	19 20
Copper	159*	157*	75-125	1	20	5.42	7.10	27* 20
Lead	257*	229*	75-125	5	20	4.41	5.87	28* 20
Nickel	172*	164*	75-125	1	20	7.94	10.3	26* 20
Silver	173*	163*	75-125	3	20	0.0139 J	0.0186 J	30* (1) 20
Thallium	224*	203*	75-125	5	20	0.333	0.408	20 (1) 20
Vanadium	264*	249*	75-125	1	20	27.7	36.5	27* 20
Zinc	365 (2)	304 (2)	75-125	6	20	55.7	75.6	30* 20
Batch number: 103511026004B	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941							
Selenium	93	88	75-125	2	20	0.0948 J	0.120 J	24* (1) 20
Batch number: 103511026004C	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941							
Molybdenum	175*	165*	75-125	3	20	0.441	0.608	32* (1) 20
Batch number: 103511026004D	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941							
Barium	472 (2)	400 (2)	75-125	6	20	59.7	83.3	33* 20
Batch number: 103515708009	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941							
Aluminum	1340	771 (2)	75-125	8	20	11,700	11,000	6 20
	(2)							
Boron	97	97	84-115	0	20	2.79 J	1.89 J	39* (1) 20
Calcium	190 (2)	116 (2)	75-125	8	20	3,000	3,200	6 20
Iron	670 (2)	-620	75-125	7	20	18,600	18,000	3 20
		(2)						

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Quality Control Summary

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 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

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	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>	<u>Max</u>	
Lithium	104	106	82-114	2	20	21.4	20.7	3	20
Magnesium	358 (2)	250 (2)	75-125	5	20	3,720	3,800	2	20
Manganese	89 (2)	55 (2)	75-125	5	20	295	261	12	20
Phosphorus	95	66*	75-125	7	20	310	298	4	20
Potassium	139*	121	75-125	5	20	2,360	2,300	3	20
Sodium	103	104	75-125	1	20	89.4 J	89.1 J	0 (1)	20
Strontium	100	99	75-115	1	20	11.5	12.0	4	20
Tin	95	94	80-110	1	20	2.59 J	2.31 J	12 (1)	20
Titanium	221 (2)	131 (2)	75-125	7	20	1,140	1,070	7	20
Zirconium	102	105	75-125	3	20	0.832 U	1.01 J	200* (1)	20
Batch number: 103515711005	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941								
Mercury	98	99	65-135	2	20	0.0029 U	0.0028 U	0 (1)	20
Batch number: 10349113001A	Sample number(s): 6164944 UNSPK: P164525 BKG: P164525								
3b Cr VI by EPA 7199	100		59-135			5.0 U	5.0 U	0 (1)	20
Batch number: 10361102202A	Sample number(s): 6164941-6164942,6164945 UNSPK: P163885 BKG: P163885								
21a Cyanide by 9012B	100		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 10361102202B	Sample number(s): 6164946,6164957 UNSPK: 6164946 BKG: 6164946								
21a Cyanide by 9012B	102		75-125			0.17 U	0.18 U	0 (1)	20
Batch number: 11001243201A	Sample number(s): 6164941-6164942,6164945-6164957 UNSPK: 6164941 BKG: 6164941								
3a Cr VI by EPA 7199	97		75-125			0.30 J	0.41 J	30* (1)	20
Batch number: 11005005201A	Sample number(s): 6164941-6164942,6164945-6164952 UNSPK: 6164941 BKG: 6164941								
7a Perchlorate EPA 314.0	105		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11005005201B	Sample number(s): 6164953-6164957 UNSPK: 6164953 BKG: 6164953								
7a Perchlorate EPA 314.0	116		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11007007201A	Sample number(s): 6164941-6164942,6164945-6164952 UNSPK: 6164941 BKG: 6164941								
11a Anions by 300.0 - Fluoride	118		80-120			0.80 U	1.2	200* (1)	20
11a Anions by 300.0 - Nitrate	114		80-120			1.7	1.7	0 (1)	20
Batch number: 11007007201B	Sample number(s): 6164953-6164957 UNSPK: 6164953 BKG: 6164953								
11a Anions by 300.0 - Fluoride	65*		80-120			1.1	0.89 J	24* (1)	20
11a Anions by 300.0 - Nitrate	92		80-120			1.4 J	0.80 U	200* (1)	20
Batch number: 10350039402B	Sample number(s): 6164941-6164942,6164945-6164946 BKG: 6164946								
22a pH by 9045C						8.25	8.21	0	1
Batch number: 10350039403A	Sample number(s): 6164947-6164955 BKG: 6164947								
22a pH by 9045C						7.08	7.11	0	1
Batch number: 10350039403B	Sample number(s): 6164956-6164957 BKG: 6164957								
22a pH by 9045C						7.41	7.43	0	1
Batch number: 10350182102B	Sample number(s): 6164941-6164942,6164945-6164946 BKG: 6164946								
Oxidation Reduction Potential						426	428	1	6
Batch number: 10350182103A	Sample number(s): 6164947-6164955 BKG: 6164947								

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Quality Control Summary

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 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Oxidation Reduction Potential					381	381	0	6
Batch number: 10350182103B	Sample number(s): 6164956-6164957				BKG: 6164957			
Oxidation Reduction Potential					423	420	1	6
Batch number: 10350162401A	Sample number(s): 6164948-6164956				BKG: P154843			
28a Moisture Content by 160.3					12.4	13.1	6	20
Batch number: 10364162402A	Sample number(s): 6164942,6164945-6164947				BKG: P167525			
28a Moisture Content by 160.3					11.9	12.1	1	20
Batch number: 10364162402B	Sample number(s): 6164941				BKG: P163871			
28a Moisture Content by 160.3					11.4	11.7	3	20
Batch number: 11005162401A	Sample number(s): 6164957				BKG: P168986			
28a Moisture Content by 160.3					10.0	9.9	1	20

Surrogate Quality Control

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

 Analysis Name: 1a Volatile Organics EPA 8260B
 Batch number: B103501AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6164941	103	99	97	92
6164942	105	102	98	90
6164945	105	101	98	91
6164946	104	99	98	91
6164947	104	100	97	93
6164957	104	99	97	92
Blank	104	101	97	93
LCS	100	103	99	100
LCSD	99	102	100	100
MS	100	97	102	101
Limits:	80-120	80-120	81-117	74-121

 Analysis Name: 14b 1,4-Dioxane by 8260B SIM
 Batch number: E103502AA
 Toluene-d8

6164943	101
6164944	101
Blank	99
LCS	100
MS	101
MSD	100

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

Surrogate Quality Control

Limits: 80-120

 Analysis Name: 14a 1,4-Dioxane by 8260B SIM
 Batch number: E103511AA
 Toluene-d8

6164941	98
6164942	99
6164945	98
6164946	99
6164947	75
6164957	99
Blank	100
LCS	99
LCSD	100

Limits: 70-130

 Analysis Name: 1b Volatile Organics EPA8260
 Batch number: Y103512AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6164944	100	97	102	100
Blank	100	98	101	99
LCS	100	101	104	103
LCSD	97	97	103	102

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

 Analysis Name: 5b Semivolatiles by EPA 8270C
 Batch number: 10350WAB026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6164944	46	31	81	79	79	78
Blank	53	36	81	84	81	83
LCS	59	40	86	85	86	83
LCSD	71	48	103	102	105	99

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

 Analysis Name: 4b Select SVOC EPA 8270SIM
 Batch number: 10350WAH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6164944	96	70	75
Blank	78	71	76
LCS	80	72	71
LCSD	69	70	72

Limits: 40-130 45-130 45-135

 Analysis Name: 5a Semivolatiles by EPA 8270C
 Batch number: 10354SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6164941	84	85	92	82	92	85
6164942	81	83	92	79	89	81

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

Surrogate Quality Control

6164945	80	82	89	79	91	83
6164946	82	85	90	80	93	84
6164947	82	85	90	78	92	85
6164948	90	89	101	85	96	86
6164949	89	90	98	83	95	86
6164950	89	91	101	83	94	92
6164951	80	80	96	80	92	83
6164952	84	86	101	81	94	87
6164953	85	83	89	76	86	94
6164954	97	96	97	84	98	99
6164955	94	92	104	82	90	97
6164956	97	94	103	82	93	105
6164957	92	89	103	79	89	96
Blank	91	93	97	82	96	86
LCS	88	87	107	93	95	88
MS	82	84	98	90	92	84
MSD	85	88	99	90	94	85

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

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10354SLI026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6164941	69	64	75
6164942	73	67	79
6164945	76	72	79
6164946	63	68	76
6164947	75	73	77
6164948	79	70	74
6164949	81	80	77
6164950	84	75	68
6164951	75	70	91
6164952	75	71	74
6164953	75	71	72
6164954	75	69	70
6164955	81	73	72
6164956	80	71	71
6164957	78	71	75
Blank	76	72	78
LCS	74	67	88
MS	80	76	78
MSD	79	73	77

Limits: 40-130 45-130 45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10361SLB026

	N-Nitrosodimethylamine-d6
6164941	101
6164942	107
6164945	141
6164946	109
6164957	103
Blank	106

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

Surrogate Quality Control

LCS 108
MS 101
MSD 113

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Gas C5-C12
Batch number: 10349A34B
Trifluorotoluene-F

6164941 91
6164942 83
6164945 88
6164946 92
6164957 80
Blank 96
LCS 102
LCSD 99
MS 80
MSD 79

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas C5-C12
Batch number: 10350A94A
Trifluorotoluene-F

6164943 85
6164944 89
Blank 85
LCS 96
LCSD 99

Limits: 63-135

Analysis Name: 12b Pesticides by 8081A
Batch number: 103500016A
Tetrachloro-m-xylene Decachlorobiphenyl

6164944	101	84
Blank	103	97
LCS	99	86
LCSD	104	91

Limits: 52-141 40-144

Analysis Name: 8b PCBs/PCTs by 8082
Batch number: 103500017A
Tetrachloro-m-xylene Decachlorobiphenyl

6164944	119	120
Blank	123	119
LCS	117	114
LCSD	120	116

Limits: 30-150 45-120

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

Surrogate Quality Control

Analysis Name: 13b Herbicides by EPA 8151
Batch number: 103500036A
2,4-Dichlorophenylacetic
acid

6164944	85
Blank	90
LCS	107
LCSD	112

Limits: 35-144

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103510021A
Butyraldehyde

6164941	99
6164942	109
6164945	110
6164946	97
6164957	99
Blank	100
LCS	105
MS	105
MSD	104

Limits: 64-126

Analysis Name: 12a Pesticides by 8081A
Batch number: 103510029A
Tetrachloro-m-xylene Decachlorobiphenyl

6164948	89	19*
6164949	79	34
6164950	79	0*
6164951	89	56
6164952	70	69
6164953	75	46
6164954	79	59
6164955	73	68
6164956	86	112
Blank	85	105
LCS	81	107
MS	81	80
MSD	89	79

Limits: 50-130 20-120

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103540019A
Tetrachloro-m-xylene Decachlorobiphenyl

6164941	111	121*
6164942	98	120
6164945	101	118
6164946	69	91
6164947	97	120

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

Surrogate Quality Control

6164948	118	142*
6164949	116	132*
6164950	50*	84
6164951	120	127*
6164952	128	151*
6164953	88	129*
6164954	81	118
6164955	122	155*
6164956	195*	185*
6164957	135	151*
Blank	99	105
LCS	110	115
LCSD	102	106
MS	114	104
MSD	116	107

Limits: 53-139 45-120

Analysis Name: 20a Energetics by 8330A
Batch number: 103550019A
2-Nitro-m-xylene

6164941	108
6164942	110
6164945	106
6164946	105
6164957	102
Blank	112
LCS	105
LCSD	102
MS	108
MSD	105

Limits: 80-146

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103570025A
2,4-Dichlorophenylacetic
acid

6164948	128
6164949	107
6164950	231*
6164951	178*
6164952	157*
6164953	193*
6164954	162*
6164955	100
6164956	377*
Blank	85
LCS	97
MS	130
MSD	127

Limits: 36-156

Analysis Name: 27a Glycols by 8015B

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

Surrogate Quality Control

Batch number: 103510010A
Tetramethylene glycol

6164941	70
6164942	79
6164945	70
6164946	81
6164957	88
Blank	95
LCS	92
MS	117
MSD	98

Limits: 50-119

Analysis Name: 25a Alcohols by 8015B
Batch number: 103540002A
Acetone

6164941	94
6164942	85
6164945	84
6164946	87
6164957	91
Blank	93
LCS	90
MS	82
MSD	85

Limits: 42-138

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103550027A
n-Triacontane-d62

6164941	97
6164942	94
6164945	90
6164946	93
6164957	97
Blank	99
LCS	96
LCSD	97

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103570006A
Chlorobenzene Orthoterphenyl

6164941	79	88
6164942	78	85
6164945	70	82
6164946	70	82
6164957	73	86
Blank	87	94
LCS	85	94

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/19/11 at 11:07 AM

Group Number: 1225546

Surrogate Quality Control

MS	91	96
MSD	89	97
<hr/>		
Limits:	37-125	47-145

*- Outside of specification

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

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

TO: Nicole Maljovec

FROM: Ann Marie Crites

DATE: 12/15/10

RE: Missing Encore samples

Nicole,

Be advised that two Encore samples, SL-004-SA5C-SB-4.5 and SL-004-SA5C-SB-9.5, were inadvertently missed in the shipment of 12/14/10. These samples are included in today's shipment, under COC.

If you have an questions regarding these samples or this shipment, feel free to contact me.

Sincerely,
Ann Marie Crites, Sample Manager
CDM
Santa Susana Field Laboratory
406-422-8139

A handwritten signature in black ink, appearing to read 'Ann Marie Crites', written over the typed name and title.

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						CHAIN OF CUSTODY RECORD															Other Instructions and Notes								
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels Ⓢ For hex chrome analysis, lab will measure pH and ORP						VOCEPA 82608	1,4-Dioxane EPA 82608M	SVOCs EPA 8270C & PAHs 8270 SM	TPH-CERCLA EPA 8015B	TPH-EPA EPA 8015B Mod.	**Metals EPA 6010/60208/7171A	**Hex Chrome EPA 7139*	**Fluoride EPA 300.0	**Cadmium EPA 8022	**Dioxin/Furan EPA 1633B	**Mercury EPA 314.0	Resorbene Confirmation by EPA 8850	**Pesticides EPA 8081A (surface soil only)	**Herbicides EPA 81811 (surface soil only)	**Nitrate EPA 300.0		**Formaldehyde EPA 8315A	**p-NDMA EPA 1633C	**Emergents EPA 8330A	**Sulfide EPA 9022B	**pH EPA 9045C	**Temperature EPA 8015B	**GHG/EPA EPA 8015B	**Alcohol EPA 8015B
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																								
SL-002-SASC-SB-4.0-5.0	12.14.10	0942	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-002-SASC-SB-9.0-10.0	12.14.10	0950	soil	none	3 x 4 oz. jars & 3 x 16 oz. jars			X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
TB-121410	12.14.10	0800	water	HCl	2-40 mL VOA vials	X	X		X																				trip blank
EB02-SASB-121410	12.14.10	1230	water	none	6-1 liter ambers			X					X	X					X	X									rinsate
EB02-SASB-121410	12.14.10	1230	water	none	1-500 ml poly						X	X			X														rinsate
EB02-SASB-121410	12.14.10	1230	water	HNO3	1-500 ml poly					X																			rinsate
EB02-SASB-121410	12.14.10	1230	water	HCl	6-40 mL amber VOA vials	X	X		X																				rinsate
SL-002-SASC-SB-9.5	12.14.10	0948	soil	none	5 Encore Samplers	X	X		X																				
SL-002-SASC-SB-4.5	12.14.10	0938	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SASC-SB-4.5	12.14.10	1104	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SASC-SB-9.5	12.14.10	1115	soil	none	5 Encore Samplers	X	X		X																				
SL-004-SASC-SB-9.0-10.0	12.14.10	1118	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-004-SASC-SB-4.0-5.0	12.14.10	1111	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	
SL-140-SASC-SB-3.0-4.0	12.14.10	1428	soil	none	2 x 16 oz. jars			X		X	X	X	X	X	X														
SL-140-SASC-SB-3.5	12.14.10	1425	soil	none	5 Encore Samplers	X	X																						
DUP05-SASB-QC-121410	12.14.10	0850	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									DUP
SL-120-SASB-SS-0.0-0.5MS	12.14.10	0847	soil	none	2 x 16 oz. jars & 2 6" sleeves			X		X	X	X	X	X	X				X	X									MS/MSD
SL-108-SASB-SS-0.0-0.5	12.14.10	0855	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-119-SASB-SS-0.0-0.5	12.14.10	0830	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-240-SASB-SS-0.0-0.5	12.14.10	0933	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-109-SASB-SS-0.0-0.5	12.14.10	0909	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-122-SASB-SS-0.0-0.5	12.14.10	0940	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-121-SASB-SS-0.0-0.5	12.14.10	0915	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-054-SASB-SS-0.0-0.5	12.14.10	0921	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-105-SASB-SS-0.0-0.5	12.14.10	0835	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-098-SASB-SS-0.0-0.5	12.14.10	1043	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-142-SASB-SS-0.0-0.5	12.14.10	1104	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-143-SASB-SS-0.0-0.5	12.14.10	1115	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-123-SASB-SS-0.0-0.5	12.14.10	1040	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-124-SASB-SS-0.0-0.5	12.14.10	1100	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-309-SASB-SS-0.0-0.5	12.14.10	1325	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-311-SASB-SS-0.0-0.5	12.14.10	1400	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-310-SASB-SS-0.0-0.5	12.14.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-312-SASB-SS-0.0-0.5	12.14.10	1427	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SED-025-SIV-SD-0.0-0.5	12.14.10	1244	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SED-024-SIV-SD-0.0-0.5	12.14.10	1116	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SED-023-SIV-SD-0.0-0.5	12.14.10	0919	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SED-022-SIV-SD-0.0-0.5	12.14.10	1008	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-125-SASB-SS-0.0-0.5	12.14.10	1400	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-126-SASB-SS-0.0-0.5	12.14.10	1420	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-129-SASB-SS-0.0-0.5	12.14.10	1345	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-128-SASB-SS-0.0-0.5	12.14.10	1335	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SED-027-SIV-SD-0.0-0.5	12.14.10	1559	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SED-026-SIV-SD-0.0-0.5	12.14.10	1522	soil	none	1 x 16 oz. jar & 1 6" sleeve			X		X	X	X	X	X	X				X	X									
SL-060-SASC-SB-10.0-11.0	12.14.10	1618	soil	none	3 x 4 oz. jars & 3 16 oz. jars			X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	
SL-060-SASC-SB-10.5	12.14.10	1614	soil	none	5 Encore Samplers	X	X		X																				
Released by: (Signature)	Date/Time	Received for Laboratory by: (Signature)		Date/Time	Laboratory: Lancaster Laboratories, Inc.																								
Received by: (Signature)	Date/Time	Account No.			No. of coolers = 5																								
	12.14.10 1700																												
		00732992																											
		Tracking Number: 869514317156																											

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

February 02, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/05/2011
Group Number: 1227827
SDG: DE052
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-146-SA5B-SB-4.0-5.0 Soil	6177800
SL-140-SA5C-SS-0.0-0.5 Soil	6177801
SL-039-SA5C-SS-0.0-0.5 Soil	6177802
SL-036-SA5C-SS-0.0-0.5 Soil	6177803
SL-097-SA5C-SS-0.0-0.5 Soil	6177804
SL-259-SA5B-SB-4.0-5.0 Soil	6177805
SL-056-SA5C-SB-4.0-5.0 Soil	6177806
SL-056-SA5C-SB-9.0-10.0 Soil	6177807
TB-010411 Water	6177808

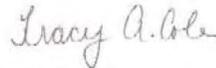
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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

Attn: Todd Burgesser

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

Respectfully Submitted,



Tracy A. Cole
Senior Specialist

Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2 U	6.2	7.4		0.8
06192	Benzene	71-43-2	0.09 U	0.09	3.7		0.8
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.7		0.8
06192	Bromochloromethane	74-97-5	0.30 U	0.30	3.7		0.8
06192	Bromodichloromethane	75-27-4	0.07 U	0.07	3.7		0.8
06192	Bromoform	75-25-2	0.37 U	0.37	3.7		0.8
06192	Bromomethane	74-83-9	0.23 U	0.23	3.7		0.8
06192	2-Butanone	78-93-3	1.1 U	1.1	7.4		0.8
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.7		0.8
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.7		0.8
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.7		0.8
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.7		0.8
06192	Chlorobenzene	108-90-7	0.10 U	0.10	3.7		0.8
06192	Chloroethane	75-00-3	0.12 U	0.12	3.7		0.8
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28 U	0.28	3.7		0.8
06192	Chloroform	67-66-3	0.11 U	0.11	3.7		0.8
06192	Chloromethane	74-87-3	0.30 U	0.30	3.7		0.8
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.7		0.8
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.7		0.8
06192	Chlorotrifluoroethene	79-38-9	0.46 U	0.46	4.6		0.8
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64 U	0.64	3.7		0.8
06192	Dibromochloromethane	124-48-1	0.18 U	0.18	3.7		0.8
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.7		0.8
06192	Dibromomethane	74-95-3	0.22 U	0.22	3.7		0.8
06192	1,2-Dichlorobenzene	95-50-1	0.08 U	0.08	3.7		0.8
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.7		0.8
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.7		0.8
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.7		0.8
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.7		0.8
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.7		0.8
06192	1,1-Dichloroethene	75-35-4	0.36 U	0.36	3.7		0.8
06192	cis-1,2-Dichloroethene	156-59-2	0.17 U	0.17	3.7		0.8
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.7		0.8
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.7		0.8
06192	1,3-Dichloropropane	142-28-9	0.07 U	0.07	3.7		0.8
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.7		0.8
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.7		0.8
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.7		0.8
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.7		0.8
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.7		0.8
06192	Freon 113	76-13-1	0.10 U	0.10	3.7		0.8
06192	Freon 133a	75-88-7	0.46 U	0.46	4.6		0.8
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.7		0.8
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.4		0.8
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.7		0.8
06192	p-Isopropyltoluene	99-87-6	0.10 U	0.10	3.7		0.8
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19 U	0.19	3.7		0.8
06192	4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	7.4		0.8
06192	Methylene Chloride	75-09-2	0.39 J	0.22	3.7		0.8
06192	n-Propylbenzene	103-65-1	0.06 U	0.06	3.7		0.8

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Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.09 U	0.09	3.7		0.8
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10 U	0.10	3.7		0.8
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21 U	0.21	3.7		0.8
06192	Tetrachloroethene	127-18-4	0.18 U	0.18	3.7		0.8
06192	Toluene	108-88-3	0.07 U	0.07	3.7		0.8
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13	3.7		0.8
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17	3.7		0.8
06192	1,1,1-Trichloroethane	71-55-6	0.18 U	0.18	3.7		0.8
06192	1,1,2-Trichloroethane	79-00-5	0.25 U	0.25	3.7		0.8
06192	Trichloroethene	79-01-6	0.14 U	0.14	3.7		0.8
06192	Trichlorofluoromethane	75-69-4	0.27 U	0.27	3.7		0.8
06192	1,2,3-Trichloropropane	96-18-4	0.30 U	0.30	3.7		0.8
06192	1,2,4-Trimethylbenzene	95-63-6	0.37 U	0.37	3.7		0.8
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09	3.7		0.8
06192	Vinyl Chloride	75-01-4	0.18 U	0.18	3.7		0.8
06192	m+p-Xylene	179601-23-1	0.16 U	0.16	3.7		0.8
06192	o-Xylene	95-47-6	0.16 U	0.16	3.7		0.8
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.9 U	4.9	15		21.26
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	25.8 J	19.3	38.5		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U 190	580		1
04688	Benzyl alcohol	100-51-6	190	U 190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	77	U 77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300		1

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Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1
04688	4-Nitroaniline	100-01-6	77	U 77	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U 190	580		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.77	U 0.77	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.77	U 0.77	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.77	U 0.77	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.77	U 0.77	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.77	U 0.77	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.9	U 6.9	21		1
10138	Di-n-butylphthalate	84-74-2	6.9	U 6.9	21		1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.77	U 0.77	1.9		1
10138	Diethylphthalate	84-66-2	6.9	U 6.9	21		1
10138	Dimethylphthalate	131-11-3	6.9	U 6.9	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.9	U 6.9	21		1
10138	Fluoranthene	206-44-0	0.77	U 0.77	1.9		1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.77	U 0.77	1.9		1

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Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.77 U	0.77	1.9	ug/kg	1
10138	2-Methylnaphthalene	91-57-6	0.77 U	0.77	1.9	ug/kg	1
10138	Naphthalene	91-20-3	0.77 U	0.77	1.9	ug/kg	1
10138	N-Nitrosodimethylamine	62-75-9	0.77 U	0.77	1.9	ug/kg	1
10138	Di-n-octylphthalate	117-84-0	6.9 U	6.9	21	ug/kg	1
10138	Phenanthrene	85-01-8	0.77 U	0.77	1.9	ug/kg	1
10138	Pyrene	129-00-0	0.77 U	0.77	1.9	ug/kg	1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas C5-C12	n.a.	0.2 U	0.2	1	mg/kg	20.76
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	69 U	69	140	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	46 U	46	140	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	92 U	92	280	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	92 U	92	280	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	46 U	46	140	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	46 U	46	140	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	46 U	46	140	1000000	1
10132	HMX	2691-41-0	120 U	120	350	1000000	1
10132	Nitrobenzene	98-95-3	46 U	46	140	1000000	1
10132	Nitroglycerin	55-63-0	920 U	920	2,800	1000000	1
10132	2-Nitrotoluene	88-72-2	92 U	92	140	1000000	1
10132	3-Nitrotoluene	99-08-1	120 U	120	140	1000000	1
10132	4-Nitrotoluene	99-99-0	92 U	92	140	1000000	1
10132	PETN	78-11-5	920 U	920	2,800	1000000	1
10132	RDX	121-82-4	58 U	58	140	1000000	1
10132	Tetryl	479-45-8	71 U	71	140	1000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	46 U	46	140	1000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	46 U	46	140	1000000	1

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Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
	SW-846 8315A		ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	690 U	690	1,700		1
Pesticides/PCBs							
	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2 U	1.2	3.8		1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	3.8		1
10225	Aroclor 5460	11126-42-4	1.2 U	1.2	3.8		1
10225	PCB-1016	12674-11-2	0.38 U	0.38	2.0		1
10225	PCB-1221	11104-28-2	0.58 U	0.58	2.0		1
10225	PCB-1232	11141-16-5	0.60 U	0.60	2.0		1
10225	PCB-1242	53469-21-9	0.58 U	0.58	2.0		1
10225	PCB-1248	12672-29-6	0.38 U	0.38	2.0		1
10225	PCB-1254	11097-69-1	0.38 U	0.38	2.0		1
10225	PCB-1260	11096-82-5	0.38 U	0.38	2.0		1
10225	PCB-1262	37324-23-5	0.38 U	0.38	2.0		1
10225	PCB-1268	11100-14-4	0.38 U	0.38	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

GC Extractable TPH	SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg
10199	EFH (C12-C14)	n.a.	0.46 U	0.46	1.4
10199	EFH (C15-C20)	n.a.	0.46 U	0.46	1.4
10199	EFH (C21-C30)	n.a.	0.46 U	0.46	1.4
10199	EFH (C30 - C40)	n.a.	0.46 U	0.46	1.4
10199	EFH (C8-C11)	n.a.	0.46 U	0.46	1.4

GC Miscellaneous	SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg
10501	Ethanol	64-17-5	120 U	120	580
10501	Isopropanol	67-63-0	120 U	120	580
10501	Methanol	67-56-1	120 U	120	580

GC Miscellaneous	SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg
08283	Diethylene glycol	111-46-6	5.8 U	5.8	14
08283	Ethylene glycol	107-21-1	5.8 U	5.8	14
08283	Propylene glycol	57-55-6	5.8 U	5.8	14

The LCS surrogate recovery is outside the QC limits. Results from the reextraction are within the limits. The reextraction was run outside the project holding time of 7 days, but within the laboratory holding time of 14 days. There is no formally established EPA holding time for this analysis. Similar results were obtained in both extracts. The results are reported from the reextraction.

The sample was injected numerous times. Each time the responses for various analytes in the calibration check standard injected after the sample were outside the acceptance criteria. Therefore, this effect is attributed to the sample matrix and the data is reported.

Terphenyls	SW-846 8015B	mg/kg	mg/kg	mg/kg	mg/kg
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 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

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Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Terphenyls			mg/kg		mg/kg	mg/kg	mg/kg	
10318	m-Terphenyl	92-06-8	1.7	U	1.7	4.0		1
10318	o-Terphenyl	84-15-1	1.7	U	1.7	4.0		1
10318	p-Terphenyl	92-94-4	1.7	U	1.7	4.0		1
Metals			mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,000		5.69	22.6		1
07914	Boron	7440-42-8	1.42	J	1.01	5.66		1
01650	Calcium	7440-70-2	3,460		6.94	22.6		1
01654	Iron	7439-89-6	23,000		5.33	22.6		1
01656	Lithium	7439-93-2	28.4		0.25	2.3		1
01657	Magnesium	7439-95-4	4,750		2.88	11.3		1
06958	Manganese	7439-96-5	380		0.0883	0.566		1
10145	Phosphorus	7723-14-0	343		0.634	11.3		1
01662	Potassium	7440-09-7	2,720		20.4	56.6		1
01667	Sodium	7440-23-5	228		42.2	113		1
07968	Strontium	7440-24-6	22.5		0.0702	0.566		1
06969	Tin	7440-31-5	3.05	J	1.13	11.3		1
06970	Titanium	7440-32-6	1,370		0.430	1.13		1
10146	Zirconium	7440-67-7	2.27	J	0.951	5.66		1
SW-846 6020			mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.200	J	0.0679	0.226		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.								
06125	Arsenic	7440-38-2	7.47		0.0679	0.453		2
06126	Barium	7440-39-3	118		0.122	0.453		2
06127	Beryllium	7440-41-7	0.852		0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0987	J	0.0408	0.113		2
06131	Chromium	7440-47-3	26.3		0.136	0.453		2
06132	Cobalt	7440-48-4	6.95		0.0226	0.113		2
06133	Copper	7440-50-8	9.78		0.0747	0.453		2
06135	Lead	7439-92-1	7.69		0.0118	0.226		2
06138	Molybdenum	7439-98-7	0.824		0.0566	0.113		2
06139	Nickel	7440-02-0	16.4		0.113	0.453		2
06141	Selenium	7782-49-2	0.155	J	0.0453	0.453		2
06142	Silver	7440-22-4	0.0461	J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.333		0.0340	0.113		2
06148	Vanadium	7440-62-2	55.4		0.0249	0.113		2
06149	Zinc	7440-66-6	63.7		0.634	3.40		2
SW-846 7471A			mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0078	J	0.0033	0.113		1
Wet Chemistry			mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.0		0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	4.6		0.92	1.7		1

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

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



Analysis Report

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

Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL146 SDG#: DE052-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4 U	10.4 ug/kg	34.6 ug/kg	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.48 J	0.23 mg/kg	1.2 mg/kg	mg/kg	1
SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20 mg/kg	0.57 mg/kg	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	452	10.0 mV	10.0 mV	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	6.57	0.0100 Std. Units	0.0100 Std. Units	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Moisture Content by 160.3	n.a.	13.4	0.50 %	0.50 %	%	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-146-SA5C-SB-4.5.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 18:14	Chelsea B Eastep	0.8
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 19:03	Sara E Johnson	21.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100523447	01/05/2011 19:38	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100523447	01/05/2011 19:50	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100523447	01/05/2011 19:51	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100523447	01/05/2011 19:35	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	11011SLB026	01/20/2011 08:51	Timothy J Trees	1

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

Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL146 SDG#: DE052-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 14:25	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 10:20	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	11011SLB026	01/12/2011 10:55	Heidi L Ortenzi	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
05551	9a TPH by EPA 8015B Gas C5-C12	TPH GRO SW-846 8015B mod	1	11010A34A	01/10/2011 13:31	Marie D John	20.76
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201100523447	01/05/2011 19:34	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	110110003A	01/14/2011 05:06	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	110100020A	01/13/2011 17:43	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 13:00	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	110100020A	01/11/2011 08:30	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	110110003A	01/12/2011 16:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	110050017A	01/06/2011 13:37	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	110060008A	01/06/2011 16:11	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	110180028A	01/18/2011 22:06	Dustin A Underkoffler	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	110050018A	01/14/2011 03:08	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	110050017A	01/06/2011 00:00	Sherry L Morrow	1
10303	Terphenyls soil prep	SW-846 3550B	1	110050018A	01/06/2011 00:00	Sherry L Morrow	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	110180028A	01/18/2011 19:10	Tyler O Griffin	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	110060008A	01/06/2011 14:00	Dustin A Underkoffler	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:03	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:21	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:07	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:07	Choon Y Tian	2

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

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Sample Description: SL-146-SA5B-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-146-SA5B-SB-4.0-5.0

LLI Sample # SW 6177800
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:58

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL146 SDG#: DE052-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011	13:07	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011	13:07	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011	13:07	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011	13:07	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011	13:07	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011	13:07	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011	13:07	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011	13:07	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011	13:07	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011	13:07	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011	13:07	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011	13:07	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011	07:37	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011	20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011	20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011	22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011	12:49	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	11017017202A	01/19/2011	12:49	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011	12:17	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011	01:00	Ashley M Adams	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	11014102201A	01/14/2011	18:54	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011	19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011	12:45	William L Hamaker Jr	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	11014102201A	01/14/2011	09:35	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011	08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011	08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011	10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11019162401A	01/19/2011	19:05	Scott W Freisher	1

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



Analysis Report

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

Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177801
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL140 SDG#: DE052-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580		1
04688	Benzidine	92-87-5	1,400	U 1,400	3,900		1
04688	Benzo(a)anthracene	56-55-3	74	J 19	190		1
04688	Benzo(a)pyrene	50-32-8	40	J 19	190		1
04688	Benzo(b)fluoranthene	205-99-2	51	J 19	190		1
04688	Benzo(g,h,i)perylene	191-24-2	20	J 19	190		1
04688	Benzo(k)fluoranthene	207-08-9	31	J 19	190		1
04688	Benzoic acid	65-85-0	190	U 190	580		1
04688	Benzyl alcohol	100-51-6	190	U 190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U 39	190		1
04688	4-Chloroaniline	106-47-8	77	U 77	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U 39	190		1
04688	Chrysene	218-01-9	66	J 19	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U 39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U 39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580		1
04688	2,4-Dinitrophenol	51-28-5	770	U 770	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U 39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Fluoranthene	206-44-0	170	J 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	77	U 77	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	22	J 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	39	U 39	190		1
04688	4-Methylphenol	106-44-5	39	U 39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	39	U 39	190		1
04688	4-Nitroaniline	100-01-6	77	U 77	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1

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

Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177801
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL140 SDG#: DE052-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	4-Nitrophenol	100-02-7	190	U 190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Pentachlorophenol	87-86-5	190	U 190	580		1
04688	Phenanthrene	85-01-8	53	J 19	190		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	Pyrene	129-00-0	180	J 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U 39	190		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U 39	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77	U 0.77	1.9		1
10138	Acenaphthylene	208-96-8	0.39	U 0.39	1.9		1
10138	Anthracene	120-12-7	0.46	J 0.39	1.9		1
10138	Butylbenzylphthalate	85-68-7	7.0	U 7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U 7.0	21		1
10138	Dibenz(a,h)anthracene	53-70-3	1.5	J 0.77	1.9		1
10138	Diethylphthalate	84-66-2	7.0	U 7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U 7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	52	7.0	21		1
10138	Fluorene	86-73-7	0.77	U 0.77	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.77	U 0.77	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.77	U 0.77	1.9		1
10138	Naphthalene	91-20-3	0.77	U 0.77	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.77	U 0.77	1.9		1
10138	Di-n-octylphthalate	117-84-0	7.0	U 7.0	21		1
Herbicides	SW-846 8151A		ug/kg	ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	1.4	U 1.4	4.2		1
10401	Dalapon	75-99-0	5.1	U 5.1	10		1
10401	2,4-DB	94-82-6	1.6	J 0.72	2.0		1
10401	Dicamba	1918-00-9	0.46	U 0.46	1.4		1
10401	Dinoseb	88-85-7	0.93	U 0.93	2.8		1
10401	2,4-DP (Dichlorprop)	120-36-5	0.93	U 0.93	2.0		1
10401	MCPA	94-74-6	88	U 88	290		1
10401	MCPP (Mecoprop)	93-65-2	87	U 87	290		1
10401	2,4,5-T	93-76-5	0.095	U 0.095	0.20		1
10401	2,4,5-TP	93-72-1	0.087	U 0.087	0.20		1
The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.							
Pesticides/PCBs	SW-846 8081A		ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.076	U 0.076	0.19		1
01363	Alpha BHC	319-84-6	0.039	U 0.039	0.19		1

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

Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177801
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL140 SDG#: DE052-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		SW-846 8081A	ug/kg	ug/kg	ug/kg	ug/kg	
01363	Beta BHC	319-85-7	0.070 U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.039 U	0.039	0.19		1
01363	Chlordane	57-74-9	0.93 U	0.93	3.9		1
01363	p,p-DDD	72-54-8	0.076 U	0.076	0.39		1
01363	p,p-DDE	72-55-9	0.097 U	0.097	0.39		1
01363	p,p-DDT	50-29-3	0.24 U	0.24	0.39		1
01363	Delta BHC	319-86-8	0.042 U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.087 U	0.087	0.39		1
01363	Endosulfan I	959-98-8	0.051 U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.076 U	0.076	0.39		1
01363	Endosulfan Sulfate	1031-07-8	0.076 U	0.076	0.39		1
01363	Endrin	72-20-8	0.076 U	0.076	0.39		1
01363	Endrin Aldehyde	7421-93-4	0.076 U	0.076	0.39		1
01363	Endrin Ketone	53494-70-5	0.076 U	0.076	0.39		1
01363	Heptachlor	76-44-8	0.070 U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.039 U	0.039	0.19		1
01363	Methoxychlor	72-43-5	0.39 U	0.39	1.9		1
01363	Mirex	2385-85-5	0.076 U	0.076	0.39		1
01363	Toxaphene	8001-35-2	2.5 U	2.5	7.6		1

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

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	1.2 U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	2.7 J	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58 U	0.58	2.0	1
10225	PCB-1232	11141-16-5	0.60 U	0.60	2.0	1
10225	PCB-1242	53469-21-9	0.58 U	0.58	2.0	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	2.0	1
10225	PCB-1254	11097-69-1	8.2	0.38	2.0	1
10225	PCB-1260	11096-82-5	1.8 J	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	2.0	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	10,100	5.60	22.3	1
07914	Boron	7440-42-8	0.992 U	0.992	5.57	1
01650	Calcium	7440-70-2	2,430	6.83	22.3	1
01654	Iron	7439-89-6	14,500	5.25	22.3	1
01656	Lithium	7439-93-2	13.5	0.25	2.2	1
01657	Magnesium	7439-95-4	3,180	2.83	11.1	1
06958	Manganese	7439-96-5	253	0.0869	0.557	1

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

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

Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177801
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL140 SDG#: DE052-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
10145	Phosphorus	7723-14-0	335	0.624	11.1		1
01662	Potassium	7440-09-7	2,450	20.1	55.7		1
01667	Sodium	7440-23-5	105	J 41.6	111		1
07968	Strontium	7440-24-6	14.0	0.0691	0.557		1
06969	Tin	7440-31-5	2.52	J 1.11	11.1		1
06970	Titanium	7440-32-6	1,020	0.423	1.11		1
10146	Zirconium	7440-67-7	1.26	J 0.936	5.57		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.143	J 0.0688	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	3.13	0.0688	0.459		2
06126	Barium	7440-39-3	85.4	0.124	0.459		2
06127	Beryllium	7440-41-7	0.339	0.0184	0.115		2
06128	Cadmium	7440-43-9	0.227	0.0413	0.115		2
06131	Chromium	7440-47-3	13.7	0.138	0.459		2
06132	Cobalt	7440-48-4	4.85	0.0229	0.115		2
06133	Copper	7440-50-8	9.26	0.0757	0.459		2
06135	Lead	7439-92-1	4.74	0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.322	0.0574	0.115		2
06139	Nickel	7440-02-0	8.63	0.115	0.459		2
06141	Selenium	7782-49-2	0.115	J 0.0459	0.459		2
06142	Silver	7440-22-4	0.0290	J 0.0138	0.115		2
06145	Thallium	7440-28-0	0.197	0.0344	0.115		2
06148	Vanadium	7440-62-2	33.8	0.0252	0.115		2
06149	Zinc	7440-66-6	72.1	0.642	3.44		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0061	J 0.0033	0.114		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.93	U 0.93	1.2		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.4	U 10.4	34.8		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37	J 0.23	1.2		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	461	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

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

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

Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177801
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL140 SDG#: DE052-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry			Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.44	0.0100	0.0100		1
Wet Chemistry			%	%	%	%	
11624	28a Moisture Content by 160.3 "Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.	n.a.	13.7	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 15:00	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 08:45	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110060007A	01/10/2011 14:01	Michele D Hamilton	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	110050020A	01/31/2011 20:17	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 13:55	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110050020A	01/06/2011 03:45	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110060007A	01/07/2011 02:20	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:06	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1

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

Sample Description: SL-140-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-140-SA5C-SS-0.0-0.5

LLI Sample # SW 6177801
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:18

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL140 SDG#: DE052-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:33	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:10	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:39	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 14:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 12:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 01:12	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

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

Sample Description: SL-039-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177802
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL039 SDG#: DE052-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	570		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzo(a)anthracene	56-55-3	36	J 19	190		1
04688	Benzo(b)fluoranthene	205-99-2	36	J 19	190		1
04688	Benzoic acid	65-85-0	190	U 190	570		1
04688	Benzyl alcohol	100-51-6	190	U 190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Butylbenzylphthalate	85-68-7	19	U 19	190		1
04688	Di-n-butylphthalate	84-74-2	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	76	U 76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	Diethylphthalate	84-66-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	Dimethylphthalate	131-11-3	19	U 19	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U 760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	19	U 19	380		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1
04688	4-Nitroaniline	100-01-6	76	U 76	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	570		1

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

Sample Description: SL-039-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177802
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL039 SDG#: DE052-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
04688	Di-n-octylphthalate	117-84-0	19	U 19	190		1
04688	Pentachlorophenol	87-86-5	190	U 190	570		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1

GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg
10138	Acenaphthene	83-32-9	3.8	U 3.8	9.5	5
10138	Acenaphthylene	208-96-8	1.9	U 1.9	9.5	5
10138	Anthracene	120-12-7	1.9	U 1.9	9.5	5
10138	Benzo(a)pyrene	50-32-8	12	3.8	9.5	5
10138	Benzo(g,h,i)perylene	191-24-2	8.6	J 3.8	9.5	5
10138	Benzo(k)fluoranthene	207-08-9	3.8	U 3.8	9.5	5
10138	Chrysene	218-01-9	36	1.9	9.5	5
10138	Dibenz(a,h)anthracene	53-70-3	5.6	J 3.8	9.5	5
10138	Fluoranthene	206-44-0	3.8	U 3.8	9.5	5
10138	Fluorene	86-73-7	3.8	U 3.8	9.5	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	3.8	U 3.8	9.5	5
10138	1-Methylnaphthalene	90-12-0	3.8	U 3.8	9.5	5
10138	2-Methylnaphthalene	91-57-6	3.8	U 3.8	9.5	5
10138	Naphthalene	91-20-3	4.0	J 3.8	9.5	5
10138	N-Nitrosodimethylamine	62-75-9	3.8	U 3.8	9.5	5
10138	Phenanthrene	85-01-8	4.3	J 3.8	9.5	5
10138	Pyrene	129-00-0	6.2	J 3.8	9.5	5

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

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg	
10401	2,4-D	94-75-7	27	U 27	82	20
10401	Dalapon	75-99-0	100	U 100	210	20
10401	2,4-DB	94-82-6	14	U 14	39	20
10401	Dicamba	1918-00-9	9.2	U 9.2	27	20
10401	Dinoseb	88-85-7	18	U 18	55	20
10401	2,4-DP (Dichlorprop)	120-36-5	18	U 18	39	20
10401	MCPA	94-74-6	1,700	U 1,700	5,700	20
10401	MCP (Mecoprop)	93-65-2	1,700	U 1,700	5,700	20
10401	2,4,5-T	93-76-5	1.9	U 1.9	3.9	20
10401	2,4,5-TP	93-72-1	1.7	U 1.7	3.9	20

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

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

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

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

Sample Description: SL-039-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177802
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL039 SDG#: DE052-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		SW-846 8081A	ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.76 U	0.76	1.9		10
01363	Alpha BHC	319-84-6	0.39 U	0.39	1.9		10
01363	Beta BHC	319-85-7	0.69 U	0.69	1.9		10
01363	Gamma BHC - Lindane	58-89-9	0.39 U	0.39	1.9		10
01363	Chlordane	57-74-9	9.2 U	9.2	39		10
01363	p,p-DDD	72-54-8	0.76 U	0.76	3.9		10
01363	p,p-DDE	72-55-9	0.76 U	0.76	3.9		10
01363	p,p-DDT	50-29-3	0.76 U	0.76	3.9		10
01363	Delta BHC	319-86-8	0.41 U	0.41	1.9		10
01363	Dieldrin	60-57-1	0.76 U	0.76	3.9		10
01363	Endosulfan I	959-98-8	0.50 U	0.50	1.9		10
01363	Endosulfan II	33213-65-9	0.76 U	0.76	3.9		10
01363	Endosulfan Sulfate	1031-07-8	0.76 U	0.76	3.9		10
01363	Endrin	72-20-8	0.76 U	0.76	3.9		10
01363	Endrin Aldehyde	7421-93-4	0.76 U	0.76	3.9		10
01363	Endrin Ketone	53494-70-5	0.76 U	0.76	3.9		10
01363	Heptachlor	76-44-8	0.69 U	0.69	1.9		10
01363	Heptachlor Epoxide	1024-57-3	0.39 U	0.39	1.9		10
01363	Methoxychlor	72-43-5	3.9 U	3.9	19		10
01363	Mirex	2385-85-5	9.5 U	0.76	3.9		10
01363	Toxaphene	8001-35-2	25 U	25	76		10

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

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.8	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.8	1
10225	Aroclor 5460	11126-42-4	5.9 U	1.1	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	1.9	1
10225	PCB-1221	11104-28-2	0.57 U	0.57	1.9	1
10225	PCB-1232	11141-16-5	0.59 U	0.59	1.9	1
10225	PCB-1242	53469-21-9	0.57 U	0.57	1.9	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	1.9	1
10225	PCB-1254	11097-69-1	0.38 U	0.38	1.9	1
10225	PCB-1260	11096-82-5	0.76 J	0.38	1.9	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	1.9	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	1.9	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	21,400	5.70	22.7	1
07914	Boron	7440-42-8	53.0	1.01	5.66	1
01650	Calcium	7440-70-2	2,940	6.94	22.7	1
01654	Iron	7439-89-6	23,800	5.34	22.7	1
01656	Lithium	7439-93-2	23.9	0.25	2.3	1
01657	Magnesium	7439-95-4	5,200	2.88	11.3	1

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Sample Description: SL-039-SA5C-SS-0.0-0.5 Soil
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 SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177802
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL039 SDG#: DE052-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
06958	Manganese	7439-96-5	226	0.0884	0.566		1
10145	Phosphorus	7723-14-0	184	0.634	11.3		1
01662	Potassium	7440-09-7	2,150	20.4	56.6		1
01667	Sodium	7440-23-5	443	42.3	113		1
07968	Strontium	7440-24-6	25.9	0.0702	0.566		1
06969	Tin	7440-31-5	2.66 J	1.13	11.3		1
06970	Titanium	7440-32-6	1,450	0.430	1.13		1
10146	Zirconium	7440-67-7	2.28 J	0.952	5.66		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.156 J	0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.66	0.0686	0.458		2
06126	Barium	7440-39-3	143	0.124	0.458		2
06127	Beryllium	7440-41-7	0.758	0.0183	0.114		2
06128	Cadmium	7440-43-9	0.129	0.0412	0.114		2
06131	Chromium	7440-47-3	25.0	0.137	0.458		2
06132	Cobalt	7440-48-4	7.17	0.0229	0.114		2
06133	Copper	7440-50-8	8.93	0.0755	0.458		2
06135	Lead	7439-92-1	7.78	0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.620	0.0572	0.114		2
06139	Nickel	7440-02-0	13.9	0.114	0.458		2
06141	Selenium	7782-49-2	0.125 J	0.0458	0.458		2
06142	Silver	7440-22-4	0.0310 J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.339	0.0343	0.114		2
06148	Vanadium	7440-62-2	56.1	0.0252	0.114		2
06149	Zinc	7440-66-6	71.7	0.641	3.43		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0041 J	0.0032	0.111		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	13.0	0.92	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.3 U	10.3	34.3		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.33 J	0.23	1.1		1
	ASTM D1498		mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	436	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						

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Sample Description: SL-039-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177802
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL039 SDG#: DE052-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.76	0.0100	0.0100		1
Wet Chemistry							
		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	12.6	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 15:35	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 10:53	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110060007A	01/12/2011 09:56	Michele D Hamilton	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	110050020A	01/31/2011 21:15	Jamie L Brillhart	10
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 14:14	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110050020A	01/06/2011 03:45	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110060007A	01/07/2011 02:20	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:16	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1

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

Sample Description: SL-039-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-039-SA5C-SS-0.0-0.5

LLI Sample # SW 6177802
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 09:48

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 14420 Albemarle Point Place
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Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL039 SDG#: DE052-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:37	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:19	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:19	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:19	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:19	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:40	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 14:14	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 13:26	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 01:25	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

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



Analysis Report

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

Sample Description: SL-036-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177803
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL036 SDG#: DE052-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U 200	600		1
04688	Benzidine	92-87-5	1,400	U 1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U 200	600		1
04688	Benzyl alcohol	100-51-6	200	U 200	600		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U 20	200		1
04688	Butylbenzylphthalate	85-68-7	20	U 20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U 20	200		1
04688	Carbazole	86-74-8	20	U 20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U 40	200		1
04688	4-Chloroaniline	106-47-8	79	U 79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U 20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U 20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U 20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U 20	200		1
04688	2-Chlorophenol	95-57-8	20	U 20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U 40	200		1
04688	Dibenzofuran	132-64-9	20	U 20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U 20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U 20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U 20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U 20	200		1
04688	Diethylphthalate	84-66-2	20	U 20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U 40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U 40	200		1
04688	Dimethylphthalate	131-11-3	20	U 20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U 200	600		1
04688	2,4-Dinitrophenol	51-28-5	790	U 790	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	40	U 40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U 20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U 20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	U 20	400		1
04688	Hexachlorobenzene	118-74-1	20	U 20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U 79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U 200	600		1
04688	Hexachloroethane	67-72-1	20	U 20	200		1
04688	Isophorone	78-59-1	20	U 20	200		1
04688	2-Methylphenol	95-48-7	40	U 40	200		1
04688	4-Methylphenol	106-44-5	40	U 40	200		1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04688	2-Nitroaniline	88-74-4	20	U 20	200		1
04688	3-Nitroaniline	99-09-2	40	U 40	200		1
04688	4-Nitroaniline	100-01-6	79	U 79	200		1
04688	Nitrobenzene	98-95-3	20	U 20	200		1
04688	2-Nitrophenol	88-75-5	20	U 20	200		1
04688	4-Nitrophenol	100-02-7	200	U 200	600		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U 20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U 20	200		1

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Sample Description: SL-036-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177803
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL036 SDG#: DE052-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U 20	200		1
04688	Pentachlorophenol	87-86-5	200	U 200	600		1
04688	Phenol	108-95-2	20	U 20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U 20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U 40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U 40	200		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	4.0	U 4.0	9.9		5
10138	Acenaphthylene	208-96-8	2.0	U 2.0	9.9		5
10138	Anthracene	120-12-7	2.0	U 2.0	9.9		5
10138	Benzo(a)anthracene	56-55-3	6.4	J 4.0	9.9		5
10138	Benzo(a)pyrene	50-32-8	9.4	J 4.0	9.9		5
10138	Benzo(b)fluoranthene	205-99-2	22	U 4.0	9.9		5
10138	Benzo(g,h,i)perylene	191-24-2	7.1	J 4.0	9.9		5
10138	Benzo(k)fluoranthene	207-08-9	4.0	U 4.0	9.9		5
10138	Chrysene	218-01-9	25	U 2.0	9.9		5
10138	Dibenz(a,h)anthracene	53-70-3	4.6	J 4.0	9.9		5
10138	Fluoranthene	206-44-0	4.0	U 4.0	9.9		5
10138	Fluorene	86-73-7	4.0	U 4.0	9.9		5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0	U 4.0	9.9		5
10138	1-Methylnaphthalene	90-12-0	4.0	U 4.0	9.9		5
10138	2-Methylnaphthalene	91-57-6	4.0	U 4.0	9.9		5
10138	Naphthalene	91-20-3	4.0	U 4.0	9.9		5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U 4.0	9.9		5
10138	Phenanthrene	85-01-8	4.0	U 4.0	9.9		5
10138	Pyrene	129-00-0	4.1	J 4.0	9.9		5

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

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	29	U 29	86
10401	Dalapon	75-99-0	100	U 100	210
10401	2,4-DB	94-82-6	15	U 15	40
10401	Dicamba	1918-00-9	9.5	U 9.5	29
10401	Dinoseb	88-85-7	19	U 19	57
10401	2,4-DP (Dichlorprop)	120-36-5	19	U 19	40
10401	MCPA	94-74-6	1,800	U 1,800	6,000
10401	MCP (Mecoprop)	93-65-2	1,800	U 1,800	6,000
10401	2,4,5-T	93-76-5	2.0	U 2.0	4.0
10401	2,4,5-TP	93-72-1	1.8	U 1.8	4.0

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

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

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Sample Description: SL-036-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177803
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL036 SDG#: DE052-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		SW-846 8081A	ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.079 U	0.079	0.20		1
01363	Alpha BHC	319-84-6	0.040 U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071 U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040 U	0.040	0.20		1
01363	Chlordane	57-74-9	0.95 U	0.95	4.0		1
01363	p,p-DDD	72-54-8	0.079 U	0.079	0.40		1
01363	p,p-DDE	72-55-9	0.079 U	0.079	0.40		1
01363	p,p-DDT	50-29-3	0.20 U	0.20	0.40		1
01363	Delta BHC	319-86-8	0.043 U	0.043	0.20		1
01363	Dieldrin	60-57-1	0.079 U	0.079	0.40		1
01363	Endosulfan I	959-98-8	0.052 U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.079 U	0.079	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.079 U	0.079	0.40		1
01363	Endrin	72-20-8	0.079 U	0.079	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.079 U	0.079	0.40		1
01363	Endrin Ketone	53494-70-5	0.079 U	0.079	0.40		1
01363	Heptachlor	76-44-8	0.071 U	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.040 U	0.040	0.20		1
01363	Methoxychlor	72-43-5	0.40 U	0.40	2.0		1
01363	Mirex	2385-85-5	0.22 U	0.22	0.40		1
01363	Toxaphene	8001-35-2	2.6 U	2.6	7.9		1

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

Due to interfering peaks on the chromatogram from the presence of PCBs, the values reported represent the lowest reporting limits attainable. Despite numerous cleanup methods, our usual reporting limits were not attained.

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	1.2 U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2 U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39 U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.60 U	0.60	2.0	1
10225	PCB-1232	11141-16-5	0.62 U	0.62	2.0	1
10225	PCB-1242	53469-21-9	0.60 U	0.60	2.0	1
10225	PCB-1248	12672-29-6	0.39 U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39 U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.69 J	0.39	2.0	1
10225	PCB-1262	37324-23-5	0.39 U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39 U	0.39	2.0	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	21,000	5.81	23.1	1
07914	Boron	7440-42-8	8.29	1.03	5.78	1
01650	Calcium	7440-70-2	2,280	7.09	23.1	1
01654	Iron	7439-89-6	21,400	5.44	23.1	1
01656	Lithium	7439-93-2	22.2	0.25	2.3	1

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Sample Description: SL-036-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177803
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL036 SDG#: DE052-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
SW-846 6010B			mg/kg	mg/kg	mg/kg	mg/kg	
01657	Magnesium	7439-95-4	4,640	2.94	11.6		1
06958	Manganese	7439-96-5	228	0.0902	0.578		1
10145	Phosphorus	7723-14-0	170	0.647	11.6		1
01662	Potassium	7440-09-7	2,130	20.8	57.8		1
01667	Sodium	7440-23-5	275	43.1	116		1
07968	Strontium	7440-24-6	25.8	0.0717	0.578		1
06969	Tin	7440-31-5	2.68 J	1.16	11.6		1
06970	Titanium	7440-32-6	1,350	0.439	1.16		1
10146	Zirconium	7440-67-7	2.21 J	0.971	5.78		1
SW-846 6020			mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.197 J	0.0707	0.236		2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.							
06125	Arsenic	7440-38-2	6.24	0.0707	0.471		2
06126	Barium	7440-39-3	134	0.127	0.471		2
06127	Beryllium	7440-41-7	0.799	0.0189	0.118		2
06128	Cadmium	7440-43-9	0.0901 J	0.0424	0.118		2
06131	Chromium	7440-47-3	24.8	0.141	0.471		2
06132	Cobalt	7440-48-4	5.33	0.0236	0.118		2
06133	Copper	7440-50-8	8.37	0.0778	0.471		2
06135	Lead	7439-92-1	6.97	0.0123	0.236		2
06138	Molybdenum	7439-98-7	0.531	0.0589	0.118		2
06139	Nickel	7440-02-0	13.0	0.118	0.471		2
06141	Selenium	7782-49-2	0.134 J	0.0471	0.471		2
06142	Silver	7440-22-4	0.0358 J	0.0141	0.118		2
06145	Thallium	7440-28-0	0.305	0.0354	0.118		2
06148	Vanadium	7440-62-2	53.4	0.0259	0.118		2
06149	Zinc	7440-66-6	51.4	0.660	3.54		2
SW-846 7471A			mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0034 U	0.0034	0.118		1
Wet Chemistry			mg/kg	mg/kg	mg/kg	mg/kg	
EPA 300.0			mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	11.4	0.95	1.2		1
EPA 314.0			ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.7		1
SW-846 7199			mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.42 J	0.24	1.2		1
ASTM D1498			mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	455	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							

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Sample Description: SL-036-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177803
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 10:15

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 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL036 SDG#: DE052-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.13	0.0100	0.0100		1
Wet Chemistry							
		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	16.0	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 16:10	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 11:25	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110060007A	01/12/2011 10:24	Michele D Hamilton	20
01363	12a Pesticides by 8081A	SW-846 8081A	1	110050020A	01/31/2011 21:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 14:32	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110050020A	01/06/2011 03:45	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110060007A	01/07/2011 02:20	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:20	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1

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

Sample Description: SL-036-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-036-SA5C-SS-0.0-0.5

LLI Sample # SW 6177803
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Submitted: 01/05/2011 09:00

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SL036 SDG#: DE052-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:41	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:44	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 14:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 13:50	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 01:37	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

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

Sample Description: SL-097-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177804
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL097 SDG#: DE052-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U 200	590		1
04688	Benzidine	92-87-5	1,400	U 1,400	4,000		1
04688	Benzoic acid	65-85-0	200	U 200	590		1
04688	Benzyl alcohol	100-51-6	200	U 200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U 20	200		1
04688	Butylbenzylphthalate	85-68-7	20	U 20	200		1
04688	Di-n-butylphthalate	84-74-2	20	U 20	200		1
04688	Carbazole	86-74-8	20	U 20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	40	U 40	200		1
04688	4-Chloroaniline	106-47-8	79	U 79	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U 20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U 20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U 20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U 20	200		1
04688	2-Chlorophenol	95-57-8	20	U 20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	40	U 40	200		1
04688	Dibenzofuran	132-64-9	20	U 20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U 20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U 20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U 20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	400		1
04688	2,4-Dichlorophenol	120-83-2	20	U 20	200		1
04688	Diethylphthalate	84-66-2	20	U 20	200		1
04688	2,4-Dimethylphenol	105-67-9	40	U 40	200		1
04688	3,5-Dimethylphenol	108-68-9	40	U 40	200		1
04688	Dimethylphthalate	131-11-3	20	U 20	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U 200	590		1
04688	2,4-Dinitrophenol	51-28-5	790	U 790	2,400		1
04688	2,4-Dinitrotoluene	121-14-2	40	U 40	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U 20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U 20	200		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	20	U 20	400		1
04688	Hexachlorobenzene	118-74-1	20	U 20	200		1
04688	Hexachlorobutadiene	87-68-3	79	U 79	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U 200	590		1
04688	Hexachloroethane	67-72-1	20	U 20	200		1
04688	Isophorone	78-59-1	20	U 20	200		1
04688	2-Methylphenol	95-48-7	40	U 40	200		1
04688	4-Methylphenol	106-44-5	40	U 40	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U 20	200		1
04688	3-Nitroaniline	99-09-2	40	U 40	200		1
04688	4-Nitroaniline	100-01-6	79	U 79	200		1
04688	Nitrobenzene	98-95-3	20	U 20	200		1
04688	2-Nitrophenol	88-75-5	20	U 20	200		1
04688	4-Nitrophenol	100-02-7	200	U 200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U 20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U 20	200		1

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Sample Description: SL-097-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177804
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL097 SDG#: DE052-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Di-n-octylphthalate	117-84-0	20	U 20	200		1
04688	Pentachlorophenol	87-86-5	200	U 200	590		1
04688	Phenol	108-95-2	20	U 20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U 20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	40	U 40	200		1
04688	2,4,6-Trichlorophenol	88-06-2	40	U 40	200		1

GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg
10138	Acenaphthene	83-32-9	4.0	U 4.0	9.9	5
10138	Acenaphthylene	208-96-8	2.0	U 2.0	9.9	5
10138	Anthracene	120-12-7	2.0	U 2.0	9.9	5
10138	Benzo(a)anthracene	56-55-3	4.0	U 4.0	9.9	5
10138	Benzo(a)pyrene	50-32-8	4.0	U 4.0	9.9	5
10138	Benzo(b)fluoranthene	205-99-2	6.0	J 4.0	9.9	5
10138	Benzo(g,h,i)perylene	191-24-2	6.3	J 4.0	9.9	5
10138	Benzo(k)fluoranthene	207-08-9	4.0	U 4.0	9.9	5
10138	Chrysene	218-01-9	4.7	J 2.0	9.9	5
10138	Dibenz(a,h)anthracene	53-70-3	4.0	U 4.0	9.9	5
10138	Fluoranthene	206-44-0	4.0	U 4.0	9.9	5
10138	Fluorene	86-73-7	4.0	U 4.0	9.9	5
10138	Indeno(1,2,3-cd)pyrene	193-39-5	4.0	U 4.0	9.9	5
10138	1-Methylnaphthalene	90-12-0	4.0	U 4.0	9.9	5
10138	2-Methylnaphthalene	91-57-6	4.0	U 4.0	9.9	5
10138	Naphthalene	91-20-3	4.0	U 4.0	9.9	5
10138	N-Nitrosodimethylamine	62-75-9	4.0	U 4.0	9.9	5
10138	Phenanthrene	85-01-8	4.0	U 4.0	9.9	5
10138	Pyrene	129-00-0	4.0	U 4.0	9.9	5

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

Herbicides	SW-846 8151A	ug/kg	ug/kg	ug/kg	ug/kg
10401	2,4-D	94-75-7	7.1	U 7.1	21
10401	Dalapon	75-99-0	26	U 26	53
10401	2,4-DB	94-82-6	3.7	U 3.7	10
10401	Dicamba	1918-00-9	2.4	U 2.4	7.1
10401	Dinoseb	88-85-7	4.8	U 4.8	14
10401	2,4-DP (Dichlorprop)	120-36-5	4.8	U 4.8	10
10401	MCPA	94-74-6	450	U 450	1,500
10401	MCPP (Mecoprop)	93-65-2	450	U 450	1,500
10401	2,4,5-T	93-76-5	0.49	U 0.49	1.0
10401	2,4,5-TP	93-72-1	0.45	U 0.45	1.0

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

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

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Sample Description: SL-097-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177804
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL097 SDG#: DE052-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		SW-846 8081A	ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.078 U	0.078	0.20		1
01363	Alpha BHC	319-84-6	0.040 U	0.040	0.20		1
01363	Beta BHC	319-85-7	0.071 U	0.071	0.20		1
01363	Gamma BHC - Lindane	58-89-9	0.040 U	0.040	0.20		1
01363	Chlordane	57-74-9	0.95 U	0.95	4.0		1
01363	p,p-DDD	72-54-8	0.078 U	0.078	0.40		1
01363	p,p-DDE	72-55-9	0.078 U	0.078	0.40		1
01363	p,p-DDT	50-29-3	0.078 U	0.078	0.40		1
01363	Delta BHC	319-86-8	0.20 U	0.20	0.20		1
01363	Dieldrin	60-57-1	0.10 J	0.078	0.40		1
01363	Endosulfan I	959-98-8	0.052 U	0.052	0.20		1
01363	Endosulfan II	33213-65-9	0.078 U	0.078	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.12 J	0.078	0.40		1
01363	Endrin	72-20-8	0.078 U	0.078	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.078 U	0.078	0.40		1
01363	Endrin Ketone	53494-70-5	0.078 U	0.078	0.40		1
01363	Heptachlor	76-44-8	0.29	0.071	0.20		1
01363	Heptachlor Epoxide	1024-57-3	0.040 U	0.040	0.20		1
01363	Methoxychlor	72-43-5	0.40 U	0.40	2.0		1
01363	Mirex	2385-85-5	0.078 U	0.078	0.40		1
01363	Toxaphene	8001-35-2	2.6 U	2.6	7.8		1

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

When the concentration detected on the primary and confirmation column is significantly different, some uncertainty as to the presence and concentration of the compound exists. In these cases, the reporting limits have been raised. The following compounds were affected: delta-BHC.

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	1.2 U	1.2	3.9	1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	3.9	1
10225	Aroclor 5460	11126-42-4	1.2 U	1.2	3.9	1
10225	PCB-1016	12674-11-2	0.39 U	0.39	2.0	1
10225	PCB-1221	11104-28-2	0.59 U	0.59	2.0	1
10225	PCB-1232	11141-16-5	0.62 U	0.62	2.0	1
10225	PCB-1242	53469-21-9	0.59 U	0.59	2.0	1
10225	PCB-1248	12672-29-6	0.39 U	0.39	2.0	1
10225	PCB-1254	11097-69-1	0.39 U	0.39	2.0	1
10225	PCB-1260	11096-82-5	0.39 U	0.39	2.0	1
10225	PCB-1262	37324-23-5	0.39 U	0.39	2.0	1
10225	PCB-1268	11100-14-4	0.39 U	0.39	2.0	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	25,900	5.97	23.8	1
07914	Boron	7440-42-8	1.06 U	1.06	5.94	1
01650	Calcium	7440-70-2	3,840	7.28	23.8	1

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Sample Description: SL-097-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177804
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL097 SDG#: DE052-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01654	Iron	7439-89-6	27,000	5.59	23.8		1
01656	Lithium	7439-93-2	25.0	0.26	2.4		1
01657	Magnesium	7439-95-4	4,870	3.02	11.9		1
06958	Manganese	7439-96-5	640	0.0926	0.594		1
10145	Phosphorus	7723-14-0	194	0.665	11.9		1
01662	Potassium	7440-09-7	2,270	21.4	59.4		1
01667	Sodium	7440-23-5	265	44.3	119		1
07968	Strontium	7440-24-6	36.8	0.0736	0.594		1
06969	Tin	7440-31-5	3.00 J	1.19	11.9		1
06970	Titanium	7440-32-6	1,410	0.451	1.19		1
10146	Zirconium	7440-67-7	2.40 J	0.998	5.94		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.270	0.0713	0.238		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.17	0.0713	0.475		2
06126	Barium	7440-39-3	164	0.128	0.475		2
06127	Beryllium	7440-41-7	0.971	0.0190	0.119		2
06128	Cadmium	7440-43-9	0.422	0.0428	0.119		2
06131	Chromium	7440-47-3	36.1	0.143	0.475		2
06132	Cobalt	7440-48-4	7.09	0.0238	0.119		2
06133	Copper	7440-50-8	14.4	0.0784	0.475		2
06135	Lead	7439-92-1	10.2	0.0124	0.238		2
06138	Molybdenum	7439-98-7	0.680	0.0594	0.119		2
06139	Nickel	7440-02-0	19.8	0.119	0.475		2
06141	Selenium	7782-49-2	0.149 J	0.0475	0.475		2
06142	Silver	7440-22-4	0.0606 J	0.0143	0.119		2
06145	Thallium	7440-28-0	0.396	0.0356	0.119		2
06148	Vanadium	7440-62-2	74.7	0.0261	0.119		2
06149	Zinc	7440-66-6	79.9	0.665	3.56		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0034 U	0.0034	0.118		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.3	0.95	1.2		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.7 U	10.7	35.6		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43 J	0.24	1.2		1
	ASTM D1498		mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	506	10.0	10.0		1

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Sample Description: SL-097-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177804
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 11:12

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL097 SDG#: DE052-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.58	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	15.8	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 16:45	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 11:57	Joseph M Gambler	5
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110060007A	01/12/2011 14:05	Michele D Hamilton	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	110050020A	01/31/2011 21:44	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 14:51	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110050020A	01/06/2011 03:45	Roman Kuropatkin	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110060007A	01/07/2011 02:20	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:23	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1

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Sample Description: SL-097-SA5C-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-097-SA5C-SS-0.0-0.5

LLI Sample # SW 6177804
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL097 SDG#: DE052-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:45	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:26	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:45	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 15:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 14:13	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 01:50	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

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

Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL259 SDG#: DE052-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	13	7.7	9.2		1.04
06192	Benzene	71-43-2	0.11 U	0.11	4.6		1.04
06192	Bromobenzene	108-86-1	0.15 U	0.15	4.6		1.04
06192	Bromochloromethane	74-97-5	0.38 U	0.38	4.6		1.04
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.6		1.04
06192	Bromoform	75-25-2	0.46 U	0.46	4.6		1.04
06192	Bromomethane	74-83-9	0.29 U	0.29	4.6		1.04
06192	2-Butanone	78-93-3	1.4 U	1.4	9.2		1.04
06192	n-Butylbenzene	104-51-8	0.14 U	0.14	4.6		1.04
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.6		1.04
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.6		1.04
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.6		1.04
06192	Chlorobenzene	108-90-7	0.13 U	0.13	4.6		1.04
06192	Chloroethane	75-00-3	0.15 U	0.15	4.6		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34 U	0.34	4.6		1.04
06192	Chloroform	67-66-3	0.14 U	0.14	4.6		1.04
06192	Chloromethane	74-87-3	0.38 U	0.38	4.6		1.04
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.6		1.04
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.6		1.04
06192	Chlorotrifluoroethene	79-38-9	0.57 U	0.57	5.7		1.04
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80 U	0.80	4.6		1.04
06192	Dibromochloromethane	124-48-1	0.23 U	0.23	4.6		1.04
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.6		1.04
06192	Dibromomethane	74-95-3	0.27 U	0.27	4.6		1.04
06192	1,2-Dichlorobenzene	95-50-1	0.10 U	0.10	4.6		1.04
06192	1,3-Dichlorobenzene	541-73-1	0.14 U	0.14	4.6		1.04
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.6		1.04
06192	Dichlorodifluoromethane	75-71-8	0.14 U	0.14	4.6		1.04
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.6		1.04
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.6		1.04
06192	1,1-Dichloroethene	75-35-4	0.45 U	0.45	4.6		1.04
06192	cis-1,2-Dichloroethene	156-59-2	0.22 U	0.22	4.6		1.04
06192	trans-1,2-Dichloroethene	156-60-5	0.14 U	0.14	4.6		1.04
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.6		1.04
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.6		1.04
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.6		1.04
06192	1,1-Dichloropropene	563-58-6	0.15 U	0.15	4.6		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.6		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.6		1.04
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.6		1.04
06192	Freon 113	76-13-1	0.13 U	0.13	4.6		1.04
06192	Freon 133a	75-88-7	0.57 U	0.57	5.7		1.04
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.6		1.04
06192	2-Hexanone	591-78-6	1.8 U	1.8	9.2		1.04
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.6		1.04
06192	p-Isopropyltoluene	99-87-6	0.13 U	0.13	4.6		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24 U	0.24	4.6		1.04
06192	4-Methyl-2-pentanone	108-10-1	0.45 U	0.45	9.2		1.04
06192	Methylene Chloride	75-09-2	0.50 J	0.27	4.6		1.04
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.6		1.04

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

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

Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL259 SDG#: DE052-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.6		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13 U	0.13	4.6		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26 U	0.26	4.6		1.04
06192	Tetrachloroethene	127-18-4	0.23 U	0.23	4.6		1.04
06192	Toluene	108-88-3	0.09 U	0.09	4.6		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.6		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	0.21 U	0.21	4.6		1.04
06192	1,1,1-Trichloroethane	71-55-6	0.23 U	0.23	4.6		1.04
06192	1,1,2-Trichloroethane	79-00-5	0.31 U	0.31	4.6		1.04
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.6		1.04
06192	Trichlorofluoromethane	75-69-4	0.33 U	0.33	4.6		1.04
06192	1,2,3-Trichloropropane	96-18-4	0.38 U	0.38	4.6		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	0.46 U	0.46	4.6		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.6		1.04
06192	Vinyl Chloride	75-01-4	0.23 U	0.23	4.6		1.04
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.6		1.04
06192	o-Xylene	95-47-6	0.19 U	0.19	4.6		1.04
GC/MS Volatiles		SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.1 U	5.1	15		23.11
GC/MS Semivolatiles		SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	550		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U 180	550		1
04688	Benzyl alcohol	100-51-6	180	U 180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	180		1
04688	4-Chloroaniline	106-47-8	73	U 73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U 730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1

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Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL259 SDG#: DE052-06

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

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

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

Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL259 SDG#: DE052-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73 U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73 U	0.73	1.8		1
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	14,900	5.43	21.6	1
07914	Boron	7440-42-8	0.961 U	0.961	5.40	1
01650	Calcium	7440-70-2	2,610	6.62	21.6	1
01654	Iron	7439-89-6	21,800	5.09	21.6	1
01656	Lithium	7439-93-2	28.6	0.24	2.2	1
01657	Magnesium	7439-95-4	4,970	2.74	10.8	1
06958	Manganese	7439-96-5	344	0.0842	0.540	1
10145	Phosphorus	7723-14-0	375	0.605	10.8	1
01662	Potassium	7440-09-7	2,690	19.4	54.0	1
01667	Sodium	7440-23-5	133	40.3	108	1
07968	Strontium	7440-24-6	15.8	0.0669	0.540	1
06969	Tin	7440-31-5	2.54 J	1.08	10.8	1
06970	Titanium	7440-32-6	1,350	0.410	1.08	1
10146	Zirconium	7440-67-7	1.60 J	0.907	5.40	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg
06124	Antimony	7440-36-0	0.119 J	0.0654	0.218	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	8.29	0.0654	0.436	2
06126	Barium	7440-39-3	91.3	0.118	0.436	2
06127	Beryllium	7440-41-7	0.690	0.0174	0.109	2
06128	Cadmium	7440-43-9	0.102 J	0.0393	0.109	2
06131	Chromium	7440-47-3	20.6	0.131	0.436	2
06132	Cobalt	7440-48-4	6.85	0.0218	0.109	2
06133	Copper	7440-50-8	8.45	0.0720	0.436	2

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



Analysis Report

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

Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL259 SDG#: DE052-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	5.80	0.0113	0.218		2
06138	Molybdenum	7439-98-7	0.419	0.0545	0.109		2
06139	Nickel	7440-02-0	13.2	0.109	0.436		2
06141	Selenium	7782-49-2	0.151 J	0.0436	0.436		2
06142	Silver	7440-22-4	0.0131 U	0.0131	0.109		2
06145	Thallium	7440-28-0	0.336	0.0327	0.109		2
06148	Vanadium	7440-62-2	45.9	0.0240	0.109		2
06149	Zinc	7440-66-6	70.2	0.611	3.27		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.109		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.88 U	0.88	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.0		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	565	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.08	0.0100	0.0100		1
Wet Chemistry							
		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.2	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

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

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

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

Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL259 SDG#: DE052-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 18:36	Chelsea B Eastep	1.04
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 19:23	Sara E Johnson	23.11
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100523447	01/05/2011 19:43	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100523447	01/05/2011 19:51	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100523447	01/05/2011 19:51	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100523447	01/05/2011 19:40	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 19:50	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 12:30	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 15:10	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:27	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:49	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:46	Damary Valentin	1

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

Sample Description: SL-259-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-259-SA5B-SB-4.0-5.0

LLI Sample # SW 6177805
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 15:02

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL259 SDG#: DE052-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 15:25	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 14:36	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11018243201A	01/21/2011 01:56	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

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

Sample Description: SL-056-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL564 SDG#: DE052-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6 U	6.6	7.9		0.85
06192	Benzene	71-43-2	0.1 U	0.1	4.0		0.85
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0		0.85
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0		0.85
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0		0.85
06192	Bromoform	75-25-2	0.40 U	0.40	4.0		0.85
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0		0.85
06192	2-Butanone	78-93-3	1.2 U	1.2	7.9		0.85
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0		0.85
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0		0.85
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0		0.85
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0		0.85
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0		0.85
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0		0.85
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0		0.85
06192	Chloroform	67-66-3	0.12 U	0.12	4.0		0.85
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0		0.85
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0		0.85
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0		0.85
06192	Chlorotrifluoroethene	79-38-9	0.50 U	0.50	5.0		0.85
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69 U	0.69	4.0		0.85
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0		0.85
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0		0.85
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0		0.85
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0		0.85
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0		0.85
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0		0.85
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0		0.85
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	4.0		0.85
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0		0.85
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0		0.85
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0		0.85
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0		0.85
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0		0.85
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0		0.85
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0		0.85
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0		0.85
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0		0.85
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0		0.85
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0		0.85
06192	Freon 113	76-13-1	0.11 U	0.11	4.0		0.85
06192	Freon 133a	75-88-7	0.50 U	0.50	5.0		0.85
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0		0.85
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.9		0.85
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0		0.85
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0		0.85
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0		0.85
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	7.9		0.85
06192	Methylene Chloride	75-09-2	0.66 J	0.24	4.0		0.85
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0		0.85

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

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

Sample Description: SL-056-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL564 SDG#: DE052-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1 U	0.1	4.0		0.85
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0		0.85
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0		0.85
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0		0.85
06192	Toluene	108-88-3	0.08 U	0.08	4.0		0.85
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0		0.85
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0		0.85
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0		0.85
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0		0.85
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0		0.85
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0		0.85
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0		0.85
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0		0.85
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	4.0		0.85
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0		0.85
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0		0.85
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0		0.85
GC/MS Volatiles		SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.2 U	5.2	15		21.97
GC/MS Semivolatiles		SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	200	U 200	590		1
04688	Benzidine	92-87-5	1,400	U 1,400	3,900		1
04688	Benzoic acid	65-85-0	200	U 200	590		1
04688	Benzyl alcohol	100-51-6	200	U 200	590		1
04688	4-Bromophenyl-phenylether	101-55-3	20	U 20	200		1
04688	Carbazole	86-74-8	20	U 20	200		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U 39	200		1
04688	4-Chloroaniline	106-47-8	78	U 78	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U 20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U 20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U 20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U 20	200		1
04688	2-Chlorophenol	95-57-8	20	U 20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U 39	200		1
04688	Dibenzofuran	132-64-9	20	U 20	200		1
04688	1,2-Dichlorobenzene	95-50-1	20	U 20	200		1
04688	1,3-Dichlorobenzene	541-73-1	20	U 20	200		1
04688	1,4-Dichlorobenzene	106-46-7	20	U 20	200		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	390		1
04688	2,4-Dichlorophenol	120-83-2	20	U 20	200		1
04688	2,4-Dimethylphenol	105-67-9	39	U 39	200		1
04688	3,5-Dimethylphenol	108-68-9	39	U 39	200		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	200	U 200	590		1
04688	2,4-Dinitrophenol	51-28-5	780	U 780	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U 39	200		1
04688	2,6-Dinitrotoluene	606-20-2	20	U 20	200		1
04688	1,2-Diphenylhydrazine	122-66-7	20	U 20	200		1

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

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

Sample Description: SL-056-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL564 SDG#: DE052-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	20	U 20	200		1
04688	Hexachlorobutadiene	87-68-3	78	U 78	200		1
04688	Hexachlorocyclopentadiene	77-47-4	200	U 200	590		1
04688	Hexachloroethane	67-72-1	20	U 20	200		1
04688	Isophorone	78-59-1	20	U 20	200		1
04688	2-Methylphenol	95-48-7	39	U 39	200		1
04688	4-Methylphenol	106-44-5	39	U 39	200		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	20	U 20	200		1
04688	3-Nitroaniline	99-09-2	39	U 39	200		1
04688	4-Nitroaniline	100-01-6	78	U 78	200		1
04688	Nitrobenzene	98-95-3	20	U 20	200		1
04688	2-Nitrophenol	88-75-5	20	U 20	200		1
04688	4-Nitrophenol	100-02-7	200	U 200	590		1
04688	N-Nitroso-di-n-propylamine	621-64-7	20	U 20	200		1
04688	N-Nitrosodiphenylamine	86-30-6	20	U 20	200		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	200	U 200	590		1
04688	Phenol	108-95-2	20	U 20	200		1
04688	1,2,4-Trichlorobenzene	120-82-1	20	U 20	200		1
04688	2,4,5-Trichlorophenol	95-95-4	39	U 39	200		1
04688	2,4,6-Trichlorophenol	88-06-2	39	U 39	200		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.78	U 0.78	2.0		1
10138	Acenaphthylene	208-96-8	0.39	U 0.39	2.0		1
10138	Anthracene	120-12-7	0.39	U 0.39	2.0		1
10138	Benzo(a)anthracene	56-55-3	0.78	U 0.78	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.78	U 0.78	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.78	U 0.78	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78	U 0.78	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.78	U 0.78	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.0	U 7.0	21		1
10138	Di-n-butylphthalate	84-74-2	7.0	U 7.0	21		1
10138	Chrysene	218-01-9	0.39	U 0.39	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78	U 0.78	2.0		1
10138	Diethylphthalate	84-66-2	7.0	U 7.0	21		1
10138	Dimethylphthalate	131-11-3	7.0	U 7.0	21		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.0	U 7.0	21		1
10138	Fluoranthene	206-44-0	0.78	U 0.78	2.0		1
10138	Fluorene	86-73-7	0.78	U 0.78	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U 0.78	2.0		1
10138	1-Methylnaphthalene	90-12-0	0.78	U 0.78	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.78	U 0.78	2.0		1
10138	Naphthalene	91-20-3	0.78	U 0.78	2.0		1

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

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

Sample Description: SL-056-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL564 SDG#: DE052-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.78 U	0.78	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.0 U	7.0	21		1
10138	Phenanthrene	85-01-8	0.78 U	0.78	2.0		1
10138	Pyrene	129-00-0	0.78 U	0.78	2.0		1
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.2 U	1.2	3.9		1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	3.9		1
10225	Aroclor 5460	11126-42-4	1.8 J	1.2	3.9		1
10225	PCB-1016	12674-11-2	0.39 U	0.39	2.0		1
10225	PCB-1221	11104-28-2	0.59 U	0.59	2.0		1
10225	PCB-1232	11141-16-5	0.61 U	0.61	2.0		1
10225	PCB-1242	53469-21-9	0.59 U	0.59	2.0		1
10225	PCB-1248	12672-29-6	0.39 U	0.39	2.0		1
10225	PCB-1254	11097-69-1	0.50 J	0.39	2.0		1
10225	PCB-1260	11096-82-5	1.2 J	0.39	2.0		1
10225	PCB-1262	37324-23-5	0.39 U	0.39	2.0		1
10225	PCB-1268	11100-14-4	0.39 U	0.39	2.0		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	25,500	5.90	23.4	1
07914	Boron	7440-42-8	1.04 U	1.04	5.86	1
01650	Calcium	7440-70-2	3,490	7.19	23.4	1
01654	Iron	7439-89-6	29,800	5.52	23.4	1
01656	Lithium	7439-93-2	33.4	0.26	2.3	1
01657	Magnesium	7439-95-4	6,290	2.98	11.7	1
06958	Manganese	7439-96-5	534	0.0914	0.586	1
10145	Phosphorus	7723-14-0	444	0.657	11.7	1
01662	Potassium	7440-09-7	3,710	21.1	58.6	1
01667	Sodium	7440-23-5	115 J	43.7	117	1
07968	Strontium	7440-24-6	26.5	0.0727	0.586	1
06969	Tin	7440-31-5	3.01 J	1.17	11.7	1
06970	Titanium	7440-32-6	1,620	0.445	1.17	1
10146	Zirconium	7440-67-7	2.55 J	0.985	5.86	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg
06124	Antimony	7440-36-0	0.247	0.0703	0.234	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	10.0	0.0703	0.469	2
06126	Barium	7440-39-3	184	0.127	0.469	2
06127	Beryllium	7440-41-7	1.08	0.0188	0.117	2
06128	Cadmium	7440-43-9	0.221	0.0422	0.117	2
06131	Chromium	7440-47-3	54.0	0.141	0.469	2
06132	Cobalt	7440-48-4	11.0	0.0234	0.117	2
06133	Copper	7440-50-8	15.0	0.0774	0.469	2

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

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

Sample Description: SL-056-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL564 SDG#: DE052-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	10.8	0.0122	0.234		2
06138	Molybdenum	7439-98-7	1.35	0.0586	0.117		2
06139	Nickel	7440-02-0	50.6	0.117	0.469		2
06141	Selenium	7782-49-2	0.210 J	0.0469	0.469		2
06142	Silver	7440-22-4	0.0907 J	0.0141	0.117		2
06145	Thallium	7440-28-0	0.466	0.0352	0.117		2
06148	Vanadium	7440-62-2	75.5	0.0258	0.117		2
06149	Zinc	7440-66-6	95.9	0.657	3.52		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.115		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.94	1.2		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.6 U	10.6	35.2		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.76 J	0.23	1.2		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	553	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.42	0.0100	0.0100		1
Wet Chemistry							
		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	14.7	0.50	0.50		1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-056-SA5C-SB-4.5.

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

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

Sample Description: SL-056-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL564 SDG#: DE052-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 18:59	Chelsea B Eastep	0.85
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 19:43	Sara E Johnson	21.97
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100523447	01/05/2011 19:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100523447	01/05/2011 19:51	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100523447	01/05/2011 19:51	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100523447	01/05/2011 19:45	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 12:41	Joseph M Gambler	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 13:03	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 15:28	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:31	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:53	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:47	Damary Valentin	1

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

Sample Description: SL-056-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-056-SA5C-SB-4.0-5.0

LLI Sample # SW 6177806
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 14:16

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL564 SDG#: DE052-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 15:40	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 14:59	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	11018243201A	01/21/2011 02:08	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

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



Analysis Report

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

Sample Description: SL-056-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-056-SA5C-SB-9.0-10.0

LLI Sample # SW 6177807
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 16:05

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL569 SDG#: DE052-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	570		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U 190	570		1
04688	Benzyl alcohol	100-51-6	190	U 190	570		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Di-n-butylphthalate	84-74-2	140	J 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	76	U 76	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570		1
04688	2,4-Dinitrophenol	51-28-5	760	U 760	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	76	U 76	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	570		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	38	U 38	190		1
04688	4-Methylphenol	106-44-5	38	U 38	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	38	U 38	190		1
04688	4-Nitroaniline	100-01-6	76	U 76	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	570		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	570		1

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

Sample Description: SL-056-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-056-SA5C-SB-9.0-10.0

LLI Sample # SW 6177807
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 16:05

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL569 SDG#: DE052-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C							
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190		1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190		1
GC/MS Semivolatiles SW-846 8270C SIM							
10138	Acenaphthene	83-32-9	0.76	U 0.76	1.9		1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9		1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9		1
10138	Benzo(a)anthracene	56-55-3	1.3	J 0.76	1.9		1
10138	Benzo(a)pyrene	50-32-8	2.4	U 0.76	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	3.7	U 0.76	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	2.0	U 0.76	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	1.8	J 0.76	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	20		1
10138	Chrysene	218-01-9	3.0	U 0.38	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.76	U 0.76	1.9		1
10138	Diethylphthalate	84-66-2	6.8	U 6.8	20		1
10138	Dimethylphthalate	131-11-3	6.8	U 6.8	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	14	J 6.8	20		1
10138	Fluoranthene	206-44-0	2.2	U 0.76	1.9		1
10138	Fluorene	86-73-7	0.76	U 0.76	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.2	J 0.76	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.76	U 0.76	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.76	U 0.76	1.9		1
10138	Naphthalene	91-20-3	1.2	J 0.76	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.76	U 0.76	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.8	U 6.8	20		1
10138	Phenanthrene	85-01-8	1.2	J 0.76	1.9		1
10138	Pyrene	129-00-0	2.0	U 0.76	1.9		1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.1	U 1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1	U 1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.5	J 1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37	U 0.37	1.9		1
10225	PCB-1221	11104-28-2	0.57	U 0.57	1.9		1
10225	PCB-1232	11141-16-5	0.59	U 0.59	1.9		1
10225	PCB-1242	53469-21-9	0.57	U 0.57	1.9		1
10225	PCB-1248	12672-29-6	0.37	U 0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37	U 0.37	1.9		1
10225	PCB-1260	11096-82-5	0.91	J 0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37	U 0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37	U 0.37	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals SW-846 6010B							
01643	Aluminum	7429-90-5	25,700	5.54	22.0		1

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

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

Sample Description: SL-056-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-056-SA5C-SB-9.0-10.0

LLI Sample # SW 6177807
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 16:05

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL569 SDG#: DE052-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	5.33 J	0.981	5.51		1
01650	Calcium	7440-70-2	4,450	6.76	22.0		1
01654	Iron	7439-89-6	27,500	5.19	22.0		1
01656	Lithium	7439-93-2	22.8	0.24	2.2		1
01657	Magnesium	7439-95-4	5,560	2.80	11.0		1
06958	Manganese	7439-96-5	505	0.0860	0.551		1
10145	Phosphorus	7723-14-0	239	0.617	11.0		1
01662	Potassium	7440-09-7	4,900	19.8	55.1		1
01667	Sodium	7440-23-5	183	41.1	110		1
07968	Strontium	7440-24-6	33.2	0.0683	0.551		1
06969	Tin	7440-31-5	2.72 J	1.10	11.0		1
06970	Titanium	7440-32-6	1,560	0.419	1.10		1
10146	Zirconium	7440-67-7	3.80 J	0.926	5.51		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.242	0.0674	0.225		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	6.27	0.0674	0.450		2
06126	Barium	7440-39-3	161	0.121	0.450		2
06127	Beryllium	7440-41-7	0.858	0.0180	0.112		2
06128	Cadmium	7440-43-9	0.437	0.0405	0.112		2
06131	Chromium	7440-47-3	36.5	0.135	0.450		2
06132	Cobalt	7440-48-4	9.75	0.0225	0.112		2
06133	Copper	7440-50-8	16.2	0.0742	0.450		2
06135	Lead	7439-92-1	11.5	0.0117	0.225		2
06138	Molybdenum	7439-98-7	0.694	0.0562	0.112		2
06139	Nickel	7440-02-0	21.2	0.112	0.450		2
06141	Selenium	7782-49-2	0.274 J	0.0450	0.450		2
06142	Silver	7440-22-4	0.0365 J	0.0135	0.112		2
06145	Thallium	7440-28-0	0.461	0.0337	0.112		2
06148	Vanadium	7440-62-2	75.7	0.0247	0.112		2
06149	Zinc	7440-66-6	81.7	0.629	3.37		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.106		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.3	0.91	1.1		1
	EPA 314.0		ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.2 U	10.2	34.1		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.65 J	0.23	1.1		1

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

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

Sample Description: SL-056-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-056-SA5C-SB-9.0-10.0

LLI Sample # SW 6177807
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 16:05

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL569 SDG#: DE052-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	540	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.77	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	11.9	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 20:25	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 13:35	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110050019A	01/12/2011 15:47	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110050019A	01/06/2011 03:30	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 14:34	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1

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

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

Sample Description: SL-056-SA5C-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-056-SA5C-SB-9.0-10.0

LLI Sample # SW 6177807
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 16:05

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

SL569 SDG#: DE052-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 10:57	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 13:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 13:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 13:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 13:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:48	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011 15:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011 15:22	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 02:39	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11006182101A	01/06/2011 08:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11006039401A	01/06/2011 08:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401A	01/12/2011 18:17	Scott W Freisher	1

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

Sample Description: TB-010411 Water
SSFL Area IV Collocated Soil Sampling
TB-010411

LLI Sample # WW 6177808
LLI Group # 1227827
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 12:30

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

TB104 SDG#: DE052-09TB*

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

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

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

Sample Description: TB-010411 Water
 SSFL Area IV Collocated Soil Sampling
 TB-010411

LLI Sample # WW 6177808
 LLI Group # 1227827
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/04/2011 12:30

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

Submitted: 01/05/2011 09:00

Reported: 02/02/2011 16:32

TB104 SDG#: DE052-09TB*

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	1b Volatile Organics EPA8260	SW-846 8260B	1	Y110101AA	01/10/2011 14:21	Nicholas R Rossi	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110101AA	01/10/2011 13:44	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E110101AA	01/10/2011 13:44	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y110101AA	01/10/2011 14:21	Nicholas R Rossi	1
08229	9b TPH by EPA 8015B Gas C5-C12	TPH GRO SW-8015B	1	11007A20A	01/07/2011 18:03	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11007A20A	01/07/2011 18:03	Katrina T Longenecker	1

*—This limit was used in the evaluation of the final result
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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

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

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: B110071AA	Sample number(s): 6177800,6177805-6177806								
Acetone	6.7 U	6.7	8.0	ug/kg	172		32-209		
Benzene	0.10 U	0.10	4.0	ug/kg	101		80-120		
Bromobenzene	0.13 U	0.13	4.0	ug/kg	90		79-120		
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	99		79-124		
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	94		78-120		
Bromoform	0.40 U	0.40	4.0	ug/kg	97		70-120		
Bromomethane	0.25 U	0.25	4.0	ug/kg	69		32-162		
2-Butanone	1.2 U	1.2	8.0	ug/kg	124		46-153		
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	93		72-120		
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	92		75-120		
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	87		75-120		
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	104		69-122		
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	97		80-120		
Chloroethane	0.13 U	0.13	4.0	ug/kg	79		37-154		
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	93		43-146		
Chloroform	0.12 U	0.12	4.0	ug/kg	101		80-120		
Chloromethane	0.33 U	0.33	4.0	ug/kg	77		54-132		
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	91		78-120		
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	93		79-120		
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	138*		22-131		
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	84		58-120		
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	97		77-120		
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	95		80-120		
Dibromomethane	0.24 U	0.24	4.0	ug/kg	97		80-120		
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	93		79-120		
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	91		78-120		
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	92		79-120		
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	70		20-120		
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	100		80-120		
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	97		71-129		
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	103		73-123		
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	101		80-120		
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	103		79-120		
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	96		80-120		
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	94		80-120		
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	102		72-123		
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	98		77-120		
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	85		80-120		
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	86		77-120		
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	95		80-120		
Freon 113	0.11 U	0.11	4.0	ug/kg	105		61-126		
Freon 133a	0.50 U	0.50	5.0	ug/kg	90		78-120		
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	91		57-120		
2-Hexanone	1.6 U	1.6	8.0	ug/kg	83		45-155		
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	95		76-120		
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	93		75-120		

*- Outside of specification

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	96		74-121		
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	69		61-134		
Methylene Chloride	0.24 U	0.24	4.0	ug/kg	93		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	95		77-120		
Styrene	0.10 U	0.10	4.0	ug/kg	95		76-120		
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	99		80-120		
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	88		71-123		
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	106		77-120		
Toluene	0.15 J	0.08	4.0	ug/kg	99		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	87		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	82		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	103		71-125		
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	97		80-120		
Trichloroethene	0.15 U	0.15	4.0	ug/kg	98		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	87		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	92		71-123		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	91		79-120		
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	92		78-120		
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	78		53-120		
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	99		80-120		
o-Xylene	0.17 U	0.17	4.0	ug/kg	89		80-120		
Batch number: E110071AA Sample number(s): 6177800,6177805-6177806									
1,4-Dioxane	5.0 U	5.0	15	ug/kg	108	110	70-130	1	30
Batch number: E110101AA Sample number(s): 6177808									
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	102	104	60-132	2	30
Batch number: Y110101AA Sample number(s): 6177808									
Acetone	6 U	6.	20	ug/l	106	99	49-234	7	30
Benzene	0.5 U	0.5	5	ug/l	102	97	79-120	5	30
Bromobenzene	1 U	1.	5	ug/l	104	99	80-120	5	30
Bromochloromethane	1 U	1.	5	ug/l	104	101	80-120	3	30
Bromodichloromethane	1 U	1.	5	ug/l	104	99	80-120	4	30
Bromoform	1 U	1.	5	ug/l	99	94	61-120	5	30
Bromomethane	1 U	1.	5	ug/l	94	86	44-120	9	30
2-Butanone	3 U	3.	10	ug/l	106	102	66-151	4	30
n-Butylbenzene	1 U	1.	5	ug/l	99	95	74-120	4	30
sec-Butylbenzene	1 U	1.	5	ug/l	104	98	78-120	6	30
tert-Butylbenzene	1 U	1.	5	ug/l	100	96	80-120	4	30
Carbon Tetrachloride	1 U	1.	5	ug/l	106	98	75-123	8	30
Chlorobenzene	0.8 U	0.8	5	ug/l	101	97	80-120	5	30
Chloroethane	1 U	1.	5	ug/l	90	87	49-129	4	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	102	100	56-129	1	30
Chloroform	0.8 U	0.8	5	ug/l	109	103	77-122	6	30
Chloromethane	1 U	1.	5	ug/l	100	96	60-129	4	30
2-Chlorotoluene	1 U	1.	5	ug/l	105	99	80-120	5	30
4-Chlorotoluene	1 U	1.	5	ug/l	102	98	80-120	4	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	87	87	38-136	0	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	104	99	66-120	5	30
Dibromochloromethane	1 U	1.	5	ug/l	100	95	80-120	5	30
1,2-Dibromoethane	1 U	1.	5	ug/l	103	99	80-120	4	30
Dibromomethane	1 U	1.	5	ug/l	106	101	80-120	5	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	99	93	80-120	6	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	101	96	80-120	5	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	100	96	80-120	5	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	91	85	47-120	7	30
1,1-Dichloroethane	1 U	1.	5	ug/l	104	98	79-120	6	30

*- Outside of specification

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

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

Batch number: 11006SLA026

Sample number(s): 6177800-6177807

Aniline	170		170.	500	ug/kg	54		10-107		
	U									
Benzidine	1,200		1,200.	3,300	ug/kg	47		15-121		
	U									
Benzo(a)anthracene	17	U	17.	170	ug/kg	92		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	84		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	81		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	81		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	83		67-125		
Benzoic acid	170		170.	500	ug/kg	88		10-154		
	U									
Benzyl alcohol	170		170.	500	ug/kg	87		68-111		
	U									
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	94		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	96		75-115		
Di-n-butylphthalate	17	U	17.	170	ug/kg	93		79-112		
Carbazole	17	U	17.	170	ug/kg	92		77-113		
4-Chloro-3-methylphenol	33	U	33.	170	ug/kg	92		74-119		

*- Outside of specification

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
4-Chloroaniline	67 U	67.	170	ug/kg	43		10-110		
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	96		70-118		
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	87		70-104		
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	88		68-131		
2-Chloronaphthalene	17 U	17.	170	ug/kg	84		67-127		
2-Chlorophenol	17 U	17.	170	ug/kg	94		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	98		79-110		
Chrysene	17 U	17.	170	ug/kg	90		76-113		
Dibenzofuran	17 U	17.	170	ug/kg	95		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	91		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	91		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	90		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	44		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	97		75-111		
Diethylphthalate	17 U	17.	170	ug/kg	95		76-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	95		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	102		70-130		
Dimethylphthalate	17 U	17.	170	ug/kg	96		77-109		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	79		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	77		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	97		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	98		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	100		77-111		
bis(2-Ethylhexyl)phthalate	17 U	17.	330	ug/kg	98		75-117		
Fluoranthene	17 U	17.	170	ug/kg	92		78-116		
Hexachlorobenzene	17 U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	102		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	108		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	93		68-105		
Indeno(1,2,3-cd)pyrene	17 U	17.	170	ug/kg	84		64-119		
Isophorone	17 U	17.	170	ug/kg	92		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	93		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	90		66-117		
2-Nitroaniline	17 U	17.	170	ug/kg	101		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	89		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	62		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	98		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	95		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	97		56-118		
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	87		63-107		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	96		67-141		
Di-n-octylphthalate	17 U	17.	170	ug/kg	84		68-130		
Pentachlorophenol	170 U	170.	500	ug/kg	75		35-106		
Phenanthrene	17 U	17.	170	ug/kg	93		77-113		
Phenol	17 U	17.	170	ug/kg	92		58-112		
Pyrene	17 U	17.	170	ug/kg	96		75-115		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	95		73-108		
2,4,5-Trichlorophenol	33 U	33.	170	ug/kg	96		76-107		
2,4,6-Trichlorophenol	33 U	33.	170	ug/kg	103		78-111		
Batch number: 11006SLC026	Sample number(s): 6177800-6177807								
Acenaphthene	0.67 U	0.67	1.7	ug/kg	93		63-120		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	110		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	95		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	96		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	116		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	120		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	126		44-138		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	135		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	113		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	113		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	97		79-120		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	122		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	110		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	122		70-130		
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	120		67-143		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	95		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	99		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	123		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	95		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	86		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	87		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	101		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	167		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	96		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	98		56-121		
Batch number: 11011SLB026	Sample number(s): 6177800								
N-Nitrosodimethylamine	16.7 U	16.7	33.3	ng/kg	93		70-130		
Batch number: 11007A20A	Sample number(s): 6177808								
TPH-GRO S.CA water C5-C12	20 U	20.	50	ug/l	85	100	75-135	16	30
Batch number: 11010A34A	Sample number(s): 6177800								
9a TPH by EPA 8015B Gas C5-C12	0.2 U	0.2	1.0	mg/kg	76	80	67-119	5	30
Batch number: 110110003A	Sample number(s): 6177800								
4-Amino-2,6-Dinitrotoluene	60 U	60.	120	ug/kg	107		80-120		
2-Amino-4,6-Dinitrotoluene	40 U	40.	120	ug/kg	110		80-120		
2,6-Diamino-4-nitrotoluene	80 U	80.	240	ug/kg	93	83	54-134	12	30
2,4-Diamino-6-nitrotoluene	80 U	80.	240	ug/kg	93	82	54-134	12	30
1,3-Dinitrobenzene	40 U	40.	120	ug/kg	109		51-171		
2,4-Dinitrotoluene	40 U	40.	120	ug/kg	107		72-135		
2,6-Dinitrotoluene	40 U	40.	120	ug/kg	109		80-120		
HMX	100 U	100.	300	ug/kg	94		74-130		
Nitrobenzene	40 U	40.	120	ug/kg	106		80-120		
Nitroglycerin	800 U	800.	2,400	ug/kg	89		80-120		
2-Nitrotoluene	80 U	80.	120	ug/kg	107		78-128		
3-Nitrotoluene	100 U	100.	120	ug/kg	107		73-127		
4-Nitrotoluene	80 U	80.	120	ug/kg	105		80-120		
PETN	800 U	800.	2,400	ug/kg	111		80-120		
RDX	50 U	50.	120	ug/kg	115		75-131		
Tetryl	61 U	61.	120	ug/kg	115		70-168		
1,3,5-Trinitrobenzene	40 U	40.	120	ug/kg	115		77-137		
2,4,6-Trinitrotoluene	40 U	40.	120	ug/kg	109		80-120		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 110100020A	Sample number(s): 6177800								
17a Formaldehyde by 8315A	600	600.	1,500	ug/kg	96		80-126		
	U								
Batch number: 110060007A	Sample number(s): 6177801-6177804								
2,4-D	1.2	U 1.2	3.6	ug/kg	102		40-140		
Dalapon	4.4	U 4.4	9.0	ug/kg	84		24-89		
2,4-DB	0.62	U 0.62	1.7	ug/kg	87		34-138		
Dicamba	0.40	U 0.40	1.2	ug/kg	81		20-164		
Dinoseb	0.80	U 0.80	2.4	ug/kg	7*		10-36		
2,4-DP (Dichlorprop)	0.80	U 0.80	1.7	ug/kg	106		60-141		
MCPA	76	U 76.	250	ug/kg	99		34-113		
MCPP (Mecoprop)	100	U 75.	250	ug/kg	87		29-154		
	J								
2,4,5-T	0.082	U 0.082	0.17	ug/kg	96		33-145		
2,4,5-TP	0.075	U 0.075	0.17	ug/kg	89		48-138		
Batch number: 110050019A	Sample number(s): 6177800-6177807								
Aroclor 5432	1.0	U 1.0	3.3	ug/kg					
Aroclor 5442	1.0	U 1.0	3.3	ug/kg	64*	55*	75-125	14	30
Aroclor 5460	1.0	U 1.0	3.3	ug/kg					
PCB-1016	0.33	U 0.33	1.7	ug/kg	86		72-120		
PCB-1221	0.50	U 0.50	1.7	ug/kg					
PCB-1232	0.52	U 0.52	1.7	ug/kg					
PCB-1242	0.50	U 0.50	1.7	ug/kg					
PCB-1248	0.33	U 0.33	1.7	ug/kg					
PCB-1254	0.33	U 0.33	1.7	ug/kg					
PCB-1260	0.33	U 0.33	1.7	ug/kg	102		65-137		
PCB-1262	0.33	U 0.33	1.7	ug/kg					
PCB-1268	0.33	U 0.33	1.7	ug/kg					
Batch number: 110050020A	Sample number(s): 6177801-6177804								
Aldrin	0.066	U 0.066	0.17	ug/kg	127		44-135		
Alpha BHC	0.034	U 0.034	0.17	ug/kg	82		38-130		
Beta BHC	0.060	U 0.060	0.17	ug/kg	94		56-134		
Gamma BHC - Lindane	0.034	U 0.034	0.17	ug/kg	88		46-127		
Chlordane	0.80	U 0.80	3.4	ug/kg					
p,p-DDD	0.066	U 0.066	0.34	ug/kg	96		60-137		
p,p-DDE	0.066	U 0.066	0.34	ug/kg	128		59-141		
p,p-DDT	0.066	U 0.066	0.34	ug/kg	94		54-130		
Delta BHC	0.036	U 0.036	0.17	ug/kg	100		55-144		
Dieldrin	0.066	U 0.066	0.34	ug/kg	97		65-129		
Endosulfan I	0.044	U 0.044	0.17	ug/kg	79		45-123		
Endosulfan II	0.066	U 0.066	0.34	ug/kg	137*		63-127		
Endosulfan Sulfate	0.066	U 0.066	0.34	ug/kg	123		72-138		
Endrin	0.066	U 0.066	0.34	ug/kg	94		62-129		
Endrin Aldehyde	0.066	U 0.066	0.34	ug/kg	97		55-132		
Endrin Ketone	0.066	U 0.066	0.34	ug/kg	117		69-139		
Heptachlor	0.060	U 0.060	0.17	ug/kg	91		43-124		
Heptachlor Epoxide	0.034	U 0.034	0.17	ug/kg	121		65-131		
Methoxychlor	0.34	U 0.34	1.7	ug/kg	89		59-125		
Mirex	0.066	U 0.066	0.34	ug/kg					
Toxaphene	2.2	U 2.2	6.6	ug/kg					
Batch number: 110050017A	Sample number(s): 6177800								
EFH (C12-C14)	0.40	U 0.40	1.2	mg/kg	96		66-113		
EFH (C15-C20)	0.40	U 0.40	1.2	mg/kg	100		66-113		
EFH (C21-C30)	0.40	U 0.40	1.2	mg/kg	105		66-113		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	102		66-113		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	75		66-113		
Batch number: 110060008A	Sample number(s): 6177800								
Ethanol	100 U	100.	500	ug/kg	107		75-112		
Isopropanol	100 U	100.	500	ug/kg	96		75-125		
Methanol	100 U	100.	500	ug/kg	103		75-134		
Batch number: 110180028A	Sample number(s): 6177800								
Diethylene glycol	5.0 U	5.0	13	mg/kg	101		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	98		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	100		75-125		
Batch number: 110050018A	Sample number(s): 6177800								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	104		75-125		
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	106		75-125		
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	102		75-125		
Batch number: 110061026001A	Sample number(s): 6177800-6177807								
Antimony	0.0600 U	0.0600	0.200	mg/kg	120		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	109		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	109		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	108		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	118		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	105		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	106		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	112		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	117		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	104		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	112		81-119		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	106		90-110		
Zinc	0.560 U	0.560	3.00	mg/kg	104		78-122		
Batch number: 110061026001B	Sample number(s): 6177800-6177807								
Selenium	0.0400 U	0.0400	0.400	mg/kg	114		79-122		
Batch number: 110061026001C	Sample number(s): 6177800-6177807								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	115		78-122		
Batch number: 110061026001D	Sample number(s): 6177800-6177807								
Barium	0.108 U	0.108	0.400	mg/kg	106		79-121		
Batch number: 110065708002	Sample number(s): 6177800-6177807								
Aluminum	5.03 U	5.03	20.0	mg/kg	107		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	98		78-110		
Calcium	6.13 U	6.13	20.0	mg/kg	102		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	106		61-110		
Lithium	0.22 U	0.22	2.0	mg/kg	103		80-120		
Magnesium	2.54 U	2.54	10.0	mg/kg	104		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	103		81-119		
Phosphorus	1.78 J	0.560	10.0	mg/kg	106		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	103		78-110		
Sodium	37.3 U	37.3	100	mg/kg	103		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	110		79-121		
Tin	1.51 J	1.00	10.0	mg/kg	105		90-114		

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Titanium	0.380 U	0.380	1.00	mg/kg	114		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	102		80-120		
Batch number: 110065711001	Sample number(s): 6177800-6177807								
Mercury	0.0029 U	0.0029	0.0996	mg/kg	97		88-123		
Batch number: 11014102201A	Sample number(s): 6177800								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	100		80-120		
Batch number: 11017017201A	Sample number(s): 6177800-6177807								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	93		85-115		
Batch number: 11017017202A	Sample number(s): 6177800-6177807								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	109		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	93		90-110		
Batch number: 11018243201A	Sample number(s): 6177800-6177807								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	87		80-120		
Batch number: 11006039401A	Sample number(s): 6177800-6177807								
22a pH by 9045C					100		95-105		
Batch number: 11006182101A	Sample number(s): 6177800-6177807								
Oxidation Reduction Potential					100		98-102		
Batch number: 11012162401A	Sample number(s): 6177801-6177807								
28a Moisture Content by 160.3					100		80-120		
Batch number: 11019162401A	Sample number(s): 6177800								
28a Moisture Content by 160.3					100		80-120		

Sample Matrix Quality Control

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

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B110071AA	Sample number(s): 6177800,6177805-6177806 UNSPK: P179369								
Acetone	123	107	15-210	14	30				
Benzene	92	90	55-143	3	30				
Bromobenzene	74	72	43-139	3	30				
Bromochloromethane	93	90	60-137	3	30				
Bromodichloromethane	88	85	53-136	3	30				
Bromoform	89	83	38-124	7	30				
Bromomethane	69	65	42-168	5	30				
2-Butanone	94	89	37-163	6	30				
n-Butylbenzene	55	50	30-146	9	30				
sec-Butylbenzene	57	53	33-157	7	30				
tert-Butylbenzene	60	56	41-152	6	30				
Carbon Tetrachloride	95	91	45-153	5	30				
Chlorobenzene	80	76	49-135	6	30				
Chloroethane	72	70	39-152	3	30				
2-Chloroethyl Vinyl Ether	80	80	32-139	1	30				

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 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Chloroform	95	92	61-142	4	30				
Chloromethane	77	75	51-163	3	30				
2-Chlorotoluene	68	63	42-146	7	30				
4-Chlorotoluene	67	63	39-145	6	30				
Chlorotrifluoroethene	135*	137*	70-130	13	30				
1,2-Dibromo-3-chloropropane	75	71	30-139	6	30				
Dibromochloromethane	90	85	51-128	5	30				
1,2-Dibromoethane	87	84	54-129	5	30				
Dibromomethane	92	88	57-130	4	30				
1,2-Dichlorobenzene	76	72	36-133	6	30				
1,3-Dichlorobenzene	69	65	34-134	6	30				
1,4-Dichlorobenzene	71	67	35-136	6	30				
Dichlorodifluoromethane	72	68	26-151	7	30				
1,1-Dichloroethane	96	93	63-142	3	30				
1,2-Dichloroethane	93	89	68-131	4	30				
1,1-Dichloroethene	101	95	61-149	6	30				
cis-1,2-Dichloroethene	95	91	60-136	5	30				
trans-1,2-Dichloroethene	96	94	59-142	3	30				
1,2-Dichloropropane	90	88	62-135	3	30				
1,3-Dichloropropane	87	83	58-129	4	30				
2,2-Dichloropropane	95	92	53-147	4	30				
1,1-Dichloropropene	87	84	54-145	3	30				
cis-1,3-Dichloropropene	76	76	51-131	0	30				
trans-1,3-Dichloropropene	77	76	49-129	1	30				
Ethylbenzene	71	67	44-141	7	30				
Freon 113	105	98	56-156	6	30				
Freon 133a	87	90	70-130	11	30				
Hexachlorobutadiene	50	45	10-155	11	30				
2-Hexanone	60	58	32-160	4	30				
Isopropylbenzene	64	59	38-144	8	30				
p-Isopropyltoluene	58	53	29-152	9	30				
Methyl Tertiary Butyl Ether	89	86	55-129	3	30				
4-Methyl-2-pentanone	61	61	46-139	1	30				
Methylene Chloride	90	86	61-141	4	30				
n-Propylbenzene	64	60	39-157	6	30				
Styrene	76	71	35-134	7	30				
1,1,1,2-Tetrachloroethane	88	82	52-130	7	30				
1,1,2,2-Tetrachloroethane	81	78	40-152	4	30				
Tetrachloroethene	79	75	42-149	5	30				
Toluene	83	80	50-146	4	30				
1,2,3-Trichlorobenzene	70	63	10-140	10	30				
1,2,4-Trichlorobenzene	59	55	10-136	8	30				
1,1,1-Trichloroethane	95	94	64-142	1	30				
1,1,2-Trichloroethane	91	87	54-139	4	30				
Trichloroethene	85	82	53-144	3	30				
Trichlorofluoromethane	86	81	47-163	6	30				
1,2,3-Trichloropropane	83	81	45-154	3	30				
1,2,4-Trimethylbenzene	66	60	37-149	8	30				
1,3,5-Trimethylbenzene	64	59	38-150	8	30				
Vinyl Chloride	78	75	50-154	4	30				
m+p-Xylene	74	68	44-137	8	30				
o-Xylene	69	64	42-137	8	30				

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: E110071AA	Sample number(s): 6177800,6177805-6177806 UNSPK: P179369							
1,4-Dioxane	126	112	70-130	20	30			
Batch number: 11006SLA026	Sample number(s): 6177800-6177807 UNSPK: 6177806							
Aniline	55	47	14-114	15	30			
Benzenidine	35	27*	35-141	27	30			
Benzo(a)anthracene	89	91	65-122	2	30			
Benzo(a)pyrene	79	80	57-126	1	30			
Benzo(b)fluoranthene	80	84	59-125	4	30			
Benzo(g,h,i)perylene	81	81	59-127	1	30			
Benzo(k)fluoranthene	79	81	56-132	2	30			
Benzoic acid	73	74	10-173	1	30			
Benzyl alcohol	80	83	55-123	4	30			
4-Bromophenyl-phenylether	88	92	67-129	4	30			
Butylbenzylphthalate	94	95	73-134	1	30			
Di-n-butylphthalate	88	91	67-123	4	30			
Carbazole	86	90	64-120	5	30			
4-Chloro-3-methylphenol	86	89	53-130	4	30			
4-Chloroaniline	53	44	23-95	18	30			
bis(2-Chloroethoxy)methane	90	93	54-117	3	30			
bis(2-Chloroethyl)ether	80	82	60-116	3	30			
bis(2-Chloroisopropyl)ether	81	81	55-142	1	30			
2-Chloronaphthalene	78	81	50-141	4	30			
2-Chlorophenol	86	91	73-121	5	30			
4-Chlorophenyl-phenylether	91	94	64-119	3	30			
Chrysene	87	90	62-128	4	30			
Dibenzofuran	89	93	71-112	4	30			
1,2-Dichlorobenzene	82	84	66-108	2	30			
1,3-Dichlorobenzene	78	81	63-109	4	30			
1,4-Dichlorobenzene	79	82	53-113	4	30			
3,3'-Dichlorobenzidine	60	54	25-123	9	30			
2,4-Dichlorophenol	90	92	78-117	3	30			
Diethylphthalate	89	92	66-118	3	30			
2,4-Dimethylphenol	89	94	56-130	5	30			
3,5-Dimethylphenol	98	102	70-130	4	30			
Dimethylphthalate	90	92	64-118	3	30			
4,6-Dinitro-2-methylphenol	71	71	10-148	0	30			
2,4-Dinitrophenol	59	58	20-143	2	30			
2,4-Dinitrotoluene	90	97	57-114	7	30			
2,6-Dinitrotoluene	93	94	69-123	2	30			
1,2-Diphenylhydrazine	96	100	71-129	3	30			
bis(2-Ethylhexyl)phthalate	91	94	63-122	3	30			
Fluoranthene	88	93	59-122	6	30			
Hexachlorobenzene	92	95	61-111	4	30			
Hexachlorobutadiene	91	95	62-120	3	30			
Hexachlorocyclopentadiene	82	85	10-153	3	30			
Hexachloroethane	83	85	57-109	2	30			
Indeno(1,2,3-cd)pyrene	79	83	61-126	5	30			
Isophorone	86	89	51-118	3	30			
2-Methylphenol	87	90	47-142	3	30			
4-Methylphenol	82	86	55-126	4	30			
2-Nitroaniline	95	100	67-125	5	30			
3-Nitroaniline	88	90	59-122	3	30			

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Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
4-Nitroaniline	66	64	52-112	4	30				
Nitrobenzene	91	94	51-114	3	30				
2-Nitrophenol	90	90	74-115	1	30				
4-Nitrophenol	88	93	39-133	6	30				
N-Nitroso-di-n-propylamine	79	85	60-116	7	30				
N-Nitrosodiphenylamine	89	93	86-145	5	30				
Di-n-octylphthalate	83	84	56-126	1	30				
Pentachlorophenol	63	69	17-149	9	30				
Phenanthrene	88	93	65-125	5	30				
Phenol	84	92	58-126	8	30				
Pyrene	94	95	51-151	1	30				
1,2,4-Trichlorobenzene	89	91	72-115	2	30				
2,4,5-Trichlorophenol	93	97	34-139	4	30				
2,4,6-Trichlorophenol	95	101	49-140	6	30				

Batch number: 11006SLC026 Sample number(s): 6177800-6177807 UNSPK: 6177801

Acenaphthene	107*	96	63-105	11	30				
Acenaphthylene	108	96	55-126	11	30				
Anthracene	91	101	46-136	10	30				
Benzo(a)anthracene	89	90	39-144	0	30				
Benzo(a)pyrene	104	105	34-156	1	30				
Benzo(b)fluoranthene	133	124	43-155	5	30				
Benzo(g,h,i)perylene	54	60	33-141	9	30				
Benzo(k)fluoranthene	120	118	42-144	1	30				
Butylbenzylphthalate	127	110	73-140	14	30				
Di-n-butylphthalate	127	129	78-160	1	30				
Chrysene	86	87	29-156	1	30				
Dibenz(a,h)anthracene	90	86	41-130	4	30				
Diethylphthalate	116	113	87-131	3	30				
Dimethylphthalate	119*	106	74-118	11	30				
Bis(2-Ethylhexyl)phthalate	4*	11*	39-167	5	30				
Fluoranthene	89	99	26-166	9	30				
Fluorene	102	96	45-121	6	30				
Indeno(1,2,3-cd)pyrene	82	78	21-143	5	30				
1-Methylnaphthalene	93	96	72-123	4	30				
2-Methylnaphthalene	88	92	28-121	4	30				
Naphthalene	96	87	61-102	10	30				
N-Nitrosodimethylamine	107	107	48-113	0	30				
Di-n-octylphthalate	149	155	40-192	4	30				
Phenanthrene	97	98	12-165	1	30				
Pyrene	77	82	15-153	4	30				

Batch number: 11011SLB026 Sample number(s): 6177800 UNSPK: P179368

N-Nitrosodimethylamine 86 90 70-130 4 30

Batch number: 110110003A Sample number(s): 6177800 UNSPK: P178518

4-Amino-2,6-Dinitrotoluene	106	105	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	107	104	80-137	3	50				
1,3-Dinitrobenzene	107	104	38-166	3	50				
2,4-Dinitrotoluene	103	101	80-131	2	50				
2,6-Dinitrotoluene	107	105	80-127	2	50				
HMX	94	95	63-128	0	50				
Nitrobenzene	104	101	80-125	3	50				

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Quality Control Summary

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 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

Sample Matrix Quality Control

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<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Nitroglycerin	94	92	80-120	2	50				
2-Nitrotoluene	106	102	80-122	3	50				
3-Nitrotoluene	106	102	72-119	3	50				
4-Nitrotoluene	104	101	80-125	3	50				
PETN	111	109	80-121	1	50				
RDX	105	104	75-129	1	50				
Tetryl	112	109	55-174	2	50				
1,3,5-Trinitrobenzene	113	110	82-126	2	50				
2,4,6-Trinitrotoluene	106	103	82-130	3	50				
Batch number: 110100020A Sample number(s): 6177800 UNSPK: 6177800									
17a Formaldehyde by 8315A	98	102	80-120	4	50				
Batch number: 110060007A Sample number(s): 6177801-6177804 UNSPK: 6177801									
2,4-D	102	111	28-161	8	35				
Dalapon	32	81	12-86	87*	50				
2,4-DB	72	73	20-170	1	50				
Dicamba	70	71	33-120	2	50				
Dinoseb	17	15	1-44	12	35				
2,4-DP (Dichlorprop)	99	101	55-141	2	50				
MCPA	92	103	31-184	12	50				
MCPP (Mecoprop)	79	78	16-174	1	50				
2,4,5-T	88	86	25-132	3	35				
2,4,5-TP	78	80	10-183	2	35				
Batch number: 110050019A Sample number(s): 6177800-6177807 UNSPK: 6177800									
PCB-1016	89	93	29-146	4	50				
PCB-1260	107	112	39-149	4	50				
Batch number: 110050020A Sample number(s): 6177801-6177804 UNSPK: 6177801									
Aldrin	94	76	16-126	21	50				
Alpha BHC	67	42	10-129	44	50				
Beta BHC	78	69	14-147	13	50				
Gamma BHC - Lindane	64	61	10-140	5	50				
p,p-DDD	58	49	16-163	17	50				
p,p-DDE	94	77	18-161	20	50				
p,p-DDT	86	74	10-176	15	50				
Delta BHC	63	66	23-140	5	50				
Dieldrin	73	56	19-154	26	50				
Endosulfan I	58	45	16-137	24	50				
Endosulfan II	86	69	28-154	22	50				
Endosulfan Sulfate	92	86	21-160	7	50				
Endrin	70	58	11-149	19	50				
Endrin Aldehyde	73	59	10-148	21	35				
Endrin Ketone	64	73	22-165	13	50				
Heptachlor	0*	94	13-126	200*	50				
Heptachlor Epoxide	112	55	13-157	69*	50				
Methoxychlor	61	59	32-147	4	50				
Batch number: 110050017A Sample number(s): 6177800 UNSPK: 6177800									
EFH (C12-C14)	82	87	49-123	6	20				
EFH (C15-C20)	106	107	49-123	2	20				
EFH (C21-C30)	118	118	49-123	0	20				

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Quality Control Summary

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Group Number: 1227827

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EFH (C30 - C40)	106	120	49-123	12	20			
EFH (C8-C11)	57	62	49-123	8	20			
Batch number: 110060008A	Sample number(s): 6177800 UNSPK: 6177800							
Ethanol	119	118	24-143	1	20			
Isopropanol	105	106	75-125	0	20			
Methanol	116	114	45-136	2	20			
Batch number: 110180028A	Sample number(s): 6177800 UNSPK: P178519							
Diethylene glycol	102	96	59-109	7	20			
Ethylene glycol	100	93	63-107	8	20			
Propylene glycol	99	90	63-107	9	20			
Batch number: 110050018A	Sample number(s): 6177800 UNSPK: 6177800							
m-Terphenyl	99	104	75-125	5	20			
o-Terphenyl	102	108	75-125	5	20			
p-Terphenyl	98	103	75-125	5	20			
Batch number: 110061026001A	Sample number(s): 6177800-6177807 UNSPK: P178512 BKG: P178512							
Antimony	41*	44*	75-125	6	20	0.244	0.0986 J	85* (1) 20
Arsenic	24*	169*	75-125	42*	20	5.00	4.13	19 20
Beryllium	82	89	75-125	6	20	0.629	0.480	27* (1) 20
Cadmium	105	103	75-125	1	20	0.132	0.0833 J	45* (1) 20
Chromium	98	108	75-125	5	20	16.4	15.0	9 20
Cobalt	88	98	75-125	12	20	5.12	5.32	4 20
Copper	87	92	75-125	4	20	7.43	7.35	1 20
Lead	68*	84	75-125	6	20	5.85	4.32	30* 20
Nickel	95	114	75-125	11	20	9.31	8.69	7 20
Silver	111	110	75-125	1	20	0.0301 J	0.0300 J	1 (1) 20
Thallium	115	105	75-125	4	20	0.239	0.216	10 (1) 20
Vanadium	76 (2)	52 (2)	75-125	4	20	42.5	34.2	22* 20
Zinc	94 (2)	101 (2)	75-125	2	20	40.9	38.5	6 20
Batch number: 110061026001B	Sample number(s): 6177800-6177807 UNSPK: P178512 BKG: P178512							
Selenium	92	102	75-125	12	20	0.152 J	0.112 J	30* (1) 20
Batch number: 110061026001C	Sample number(s): 6177800-6177807 UNSPK: P178512 BKG: P178512							
Molybdenum	104	99	75-125	1	20	0.657	0.409	46* (1) 20
Batch number: 110061026001D	Sample number(s): 6177800-6177807 UNSPK: P178512 BKG: P178512							
Barium	94 (2)	54 (2)	75-125	3	20	102	92.2	10 20
Batch number: 110065708002	Sample number(s): 6177800-6177807 UNSPK: P178512 BKG: P178512							
Aluminum	225 (2)	1269 (2)	75-125	12	20	15,300	15,500	1 20
Boron	99	99	84-115	1	20	0.873 U	0.873 U	0 (1) 20
Calcium	221 (2)	181 (2)	75-125	6	20	1,970	2,190	11 20
Iron	473 (2)	989 (2)	75-125	3	20	16,300	16,900	4 20
Lithium	101	102	82-114	0	20	15.9	16.9	6 20
Magnesium	284 (2)	199 (2)	75-125	4	20	3,460	3,720	7 20
Manganese	187 (2)	889 (2)	75-125	65*	20	260	276	6 20
Phosphorus	160*	104	75-125	15	20	238	252	6 20
Potassium	150*	150*	75-125	0	20	2,220	2,450	10 20

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Quality Control Summary

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 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

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Sodium	105	101	75-125	4	20	109	117	6 (1)	20
Strontium	99	101	75-115	0	20	18.1	18.2	0	20
Tin	93	93	80-110	1	20	2.09 J	2.13 J	2 (1)	20
Titanium	226 (2)	225 (2)	75-125	0	20	1,180	1,200	2	20
Zirconium	98	98	75-125	1	20	1.95 J	2.44 J	23* (1)	20
Batch number: 110065711001	Sample number(s): 6177800-6177807 UNSPK: P178512 BKG: P178512								
Mercury	99	99	65-135	0	20	0.0028 U	0.0028 U	0 (1)	20
Batch number: 11014102201A	Sample number(s): 6177800 UNSPK: 6177800 BKG: 6177800								
21a Cyanide by 9012B	96		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 11017017201A	Sample number(s): 6177800-6177807 UNSPK: P173166 BKG: P173166								
7a Perchlorate EPA 314.0	95		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 11017017202A	Sample number(s): 6177800-6177807 UNSPK: 6177800 BKG: 6177800								
11a Anions by 300.0 - Fluoride	74*		80-120			2.6	3.6	30* (1)	20
11a Anions by 300.0 - Nitrate	85		80-120			4.0	5.2	26* (1)	20
Batch number: 11018243201A	Sample number(s): 6177800-6177807 UNSPK: P178522 BKG: P178522								
3a Cr VI by EPA 7199	96		75-125			0.36 J	0.52 J	36* (1)	20
Batch number: 11006039401A	Sample number(s): 6177800-6177807 BKG: 6177807								
22a pH by 9045C						7.77	7.75	0	1
Batch number: 11006182101A	Sample number(s): 6177800-6177807 BKG: 6177807								
Oxidation Reduction Potential						540	540	0	6
Batch number: 11012162401A	Sample number(s): 6177801-6177807 BKG: 6177805								
28a Moisture Content by 160.3						9.2	9.5	3	20
Batch number: 11019162401A	Sample number(s): 6177800 BKG: P183549								
28a Moisture Content by 160.3						13.8	13.9	1	20

Surrogate Quality Control

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

Analysis Name: 1a Volatile Organics EPA 8260B

Batch number: B110071AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6177800	111	103	96	85
6177805	111	109	95	88
6177806	111	109	94	87
Blank	108	105	95	89
LCS	102	104	101	101
MS	105	105	102	101
MSD	103	103	101	98

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Quality Control Summary

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 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

Surrogate Quality Control

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

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

6177800	98
6177805	98
6177806	98
Blank	102
LCS	102
LCSD	101
MS	99
MSD	98

Limits: 70-130

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

6177808	101
Blank	101
LCS	100
LCSD	100

Limits: 80-120

 Analysis Name: 1b Volatile Organics EPA8260
 Batch number: Y110101AA
 Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

6177808	103	101	99	99
Blank	104	101	99	100
LCS	103	105	100	101
LCSD	104	104	100	101

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

 Analysis Name: 5a Semivolatiles by EPA 8270C
 Batch number: 11006SLA026
 Phenol-d6 2-Fluorophenol 2,4,6-Tribromophenol Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14

6177800	84	85	93	78	86	92
6177801	86	87	91	80	91	80
6177802	76	77	80	72	83	83
6177803	83	80	85	75	85	91
6177804	80	78	89	78	87	89
6177805	89	88	106	79	86	82
6177806	82	83	93	78	87	82
6177807	89	87	102	78	84	80
Blank	85	86	105	80	93	90
LCS	90	90	108	90	95	89
MS	84	84	99	84	88	85
MSD	88	88	103	86	90	85

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

Surrogate Quality Control

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

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 11006SLC026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6177800	83	82	88
6177801	88	85	85
6177802	93	102	93
6177803	87	86	84
6177804	93	90	79
6177805	102	93	95
6177806	87	93	98
6177807	101	92	87
Blank	78	80	87
LCS	97	106	95
MS	100	98	90
MSD	99	90	84

Limits: 40-130 45-130 45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 11011SLB026

N-Nitrosodimethylamine-d6

6177800	128
Blank	131
LCS	112
MS	139
MSD	102

Limits: 50-150

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

Trifluorotoluene-F

6177808	95
Blank	96
LCS	119
LCSD	122

Limits: 63-135

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

Trifluorotoluene-F

6177800	78
Blank	86
LCS	91
LCSD	96

Limits: 61-122

Analysis Name: 8a PCBs/PCTs by 8082

*- Outside of specification

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

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

Quality Control Summary

 Client Name: CDM Federal Programs Corp.
 Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

Surrogate Quality Control

Batch number: 110050019A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6177800	90	96
6177801	103	79
6177802	84	87
6177803	92	69
6177804	88	75
6177805	104	90
6177806	102	86
6177807	91	88
Blank	112	97
LCS	87	93
LCSD	106	91
MS	96	96
MSD	93	96

Limits: 53-139 45-120

Analysis Name: 12a Pesticides by 8081A

Batch number: 110050020A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6177801	63	73
6177802	115	413*
6177803	50	74
6177804	56	89
Blank	99	102
LCS	103	108
MS	80	89
MSD	61	75

Limits: 50-130 20-120

Analysis Name: 13a Herbicides by EPA 8151

Batch number: 110060007A

 2,4-Dichlorophenylacetic
acid

6177801	88
6177802	106
6177803	128
6177804	108
Blank	83
LCS	97
MS	85
MSD	87

Limits: 36-156

Analysis Name: 17a Formaldehyde by 8315A

Batch number: 110100020A

Butyraldehyde

6177800	96
Blank	99
LCS	103

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

Surrogate Quality Control

MS 102
MSD 103

Limits: 64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 110110003A
2-Nitro-m-xylene

6177800 114
Blank 119
LCS 121
LCSD 120
MS 118
MSD 114

Limits: 80-146

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 110050017A
Chlorobenzene Orthoterphenyl

6177800	83	91
Blank	75	92
LCS	85	100
MS	86	99
MSD	85	98

Limits: 37-125 47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 110050018A
n-Triacontane-d62

6177800 118
Blank 404*
LCS 110
MS 90
MSD 94

Limits: 50-150

Analysis Name: 25a Alcohols by 8015B
Batch number: 110060008A
Acetone

6177800 92
Blank 106
LCS 102
MS 112
MSD 114

Limits: 42-138

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

*- Outside of specification

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 02/02/11 at 04:32 PM

Group Number: 1227827

Surrogate Quality Control

6177800	89
Blank	98
LCS	104
MS	110
MSD	99

Limits: 29-137

*- Outside of specification

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

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

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
Chantilly VA 20151

February 07, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 01/06/2011
Group Number: 1228000
SDG: DE053
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
EB17-SA5C-010511 Water	6178511
SL-027-SA5B-SS-0.0-0.5 Soil	6178512
SL-038-SA5C-SB-4.0-5.0 Soil	6178513
SL-065-SA5B-SB-4.0-5.0 Soil	6178514
SL-065-SA5B-SB-9.0-10.0 Soil	6178515
SL-067-SA5B-SB-3.5-4.5 Soil	6178516
SL-068-SA5B-SB-3.0-4.0 Soil	6178517
SL-069-SA5B-SB-3.0-4.0 Soil	6178518
SL-070-SA5B-SB-2.5-3.5 Soil	6178519
SL-124-SA5C-SB-4.5-5.5 Soil	6178520
SL-137-SA5C-SB-4.5-5.5 Soil	6178521
SL-298-SA5B-SS-0.0-0.5 Soil	6178522
TB-010511 Water	6178523

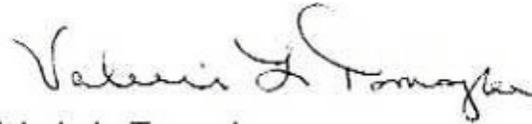
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO
1 COPY TO CDM Federal Services Program
Data Package Group

Attn: Todd Burgesser

Questions? Contact your Client Services Representative
Nicole L Maljovec at (717) 656-2300 Ext. 1537

Respectfully Submitted,



Valerie L. Tomayko
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: EB17-SA5C-010511 Water
 SSFL Area IV Collocated Soil Sampling
 EB17-SA5C-010511

LLI Sample # WW 6178511
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 12:30

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

EB-17 SDG#: DE053-01EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	ug/l	ug/l	
04678	Aniline	62-53-3	1 U	1	5		1	
04678	Benzidine	92-87-5	20 U	20	61		1	
04678	Benzoic acid	65-85-0	6 U	6	15		1	
04678	Benzyl alcohol	100-51-6	5 U	5	15		1	
04678	4-Bromophenyl-phenylether	101-55-3	1 U	1	5		1	
04678	Carbazole	86-74-8	1 U	1	5		1	
04678	4-Chloro-3-methylphenol	59-50-7	1 U	1	5		1	
04678	4-Chloroaniline	106-47-8	1 U	1	5		1	
04678	bis(2-Chloroethoxy)methane	111-91-1	1 U	1	5		1	
04678	bis(2-Chloroethyl)ether	111-44-4	1 U	1	5		1	
04678	bis(2-Chloroisopropyl)ether	39638-32-9	1 U	1	5		1	
04678	2-Chloronaphthalene	91-58-7	2 U	2	5		1	
04678	2-Chlorophenol	95-57-8	1 U	1	5		1	
04678	4-Chlorophenyl-phenylether	7005-72-3	2 U	2	5		1	
04678	Dibenzofuran	132-64-9	1 U	1	5		1	
04678	1,2-Dichlorobenzene	95-50-1	1 U	1	5		1	
04678	1,3-Dichlorobenzene	541-73-1	1 U	1	5		1	
04678	1,4-Dichlorobenzene	106-46-7	1 U	1	5		1	
04678	3,3'-Dichlorobenzidine	91-94-1	2 U	2	5		1	
04678	2,4-Dichlorophenol	120-83-2	1 U	1	5		1	
04678	2,4-Dimethylphenol	105-67-9	3 U	3	10		1	
04678	3,5-Dimethylphenol	108-68-9	3 U	3	10		1	
04678	4,6-Dinitro-2-methylphenol	534-52-1	5 U	5	15		1	
04678	2,4-Dinitrophenol	51-28-5	10 U	10	30		1	
04678	2,4-Dinitrotoluene	121-14-2	1 U	1	5		1	
04678	2,6-Dinitrotoluene	606-20-2	1 U	1	5		1	
04678	1,2-Diphenylhydrazine	122-66-7	1 U	1	5		1	
04678	Hexachlorobenzene	118-74-1	1 U	1	5		1	
04678	Hexachlorobutadiene	87-68-3	1 U	1	5		1	
04678	Hexachlorocyclopentadiene	77-47-4	5 U	5	15		1	
04678	Hexachloroethane	67-72-1	1 U	1	5		1	
04678	Isophorone	78-59-1	1 U	1	5		1	
04678	2-Methylphenol	95-48-7	1 U	1	5		1	
04678	4-Methylphenol	106-44-5	2 U	2	5		1	
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.								
04678	2-Nitroaniline	88-74-4	1 U	1	5		1	
04678	3-Nitroaniline	99-09-2	1 U	1	5		1	
04678	4-Nitroaniline	100-01-6	1 U	1	5		1	
04678	Nitrobenzene	98-95-3	1 U	1	5		1	
04678	2-Nitrophenol	88-75-5	1 U	1	5		1	
04678	4-Nitrophenol	100-02-7	10 U	10	30		1	
04678	N-Nitroso-di-n-propylamine	621-64-7	1 U	1	5		1	
04678	N-Nitrosodiphenylamine	86-30-6	2 U	2	5		1	
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.								
04678	Pentachlorophenol	87-86-5	3 U	3	15		1	
04678	Phenol	108-95-2	1 U	1	5		1	

*=This limit was used in the evaluation of the final result
 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB17-SA5C-010511 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA5C-010511

LLI Sample # WW 6178511
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 12:30

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

EB-17 SDG#: DE053-01EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/l	ug/l	ug/l	ug/l	
04678	1,2,4-Trichlorobenzene	120-82-1	1 U	1	5		1
04678	2,4,5-Trichlorophenol	95-95-4	1 U	1	5		1
04678	2,4,6-Trichlorophenol	88-06-2	1 U	1	5		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	ug/l	
10137	Acenaphthene	83-32-9	0.010 U	0.010	0.050		1
10137	Acenaphthylene	208-96-8	0.010 U	0.010	0.050		1
10137	Anthracene	120-12-7	0.010 U	0.010	0.050		1
10137	Benzo(a)anthracene	56-55-3	0.010 U	0.010	0.050		1
10137	Benzo(a)pyrene	50-32-8	0.010 U	0.010	0.050		1
10137	Benzo(b)fluoranthene	205-99-2	0.010 U	0.010	0.050		1
10137	Benzo(g,h,i)perylene	191-24-2	0.010 U	0.010	0.050		1
10137	Benzo(k)fluoranthene	207-08-9	0.010 U	0.010	0.050		1
10137	Butylbenzylphthalate	85-68-7	0.050 U	0.050	1.0		1
10137	Di-n-butylphthalate	84-74-2	0.12 J	0.050	1.0		1
10137	Chrysene	218-01-9	0.010 U	0.010	0.050		1
10137	Dibenz(a,h)anthracene	53-70-3	0.010 U	0.010	0.050		1
10137	Diethylphthalate	84-66-2	0.050 U	0.050	1.0		1
10137	Dimethylphthalate	131-11-3	0.050 U	0.050	1.0		1
10137	Bis(2-Ethylhexyl)phthalate	117-81-7	0.26 J	0.050	1.0		1
10137	Fluoranthene	206-44-0	0.010 U	0.010	0.050		1
10137	Fluorene	86-73-7	0.010 U	0.010	0.050		1
10137	Indeno(1,2,3-cd)pyrene	193-39-5	0.010 U	0.010	0.050		1
10137	1-Methylnaphthalene	90-12-0	0.014 J	0.010	0.050		1
10137	2-Methylnaphthalene	91-57-6	0.017 J	0.010	0.050		1
10137	Naphthalene	91-20-3	0.17	0.010	0.050		1
10137	N-Nitrosodimethylamine	62-75-9	0.010 U	0.010	0.050		1
10137	Di-n-octylphthalate	117-84-0	0.10 J	0.050	1.0		1
10137	Phenanthrene	85-01-8	0.010 U	0.010	0.050		1
10137	Pyrene	129-00-0	0.010 U	0.010	0.050		1

The QC limits for n-nitrosodimethylamine are advisory only until sufficient data points can be obtained to calculate statistical limits.

The following compounds were detected in the method blank at the respective concentrations of:

di-n-butylphthalate .088 ug/l
 bis(2-ethylhexyl)phthalate .12 ug/l
 di-n-octylphthalate .059 ug/l

These blank values were not subtracted from the analytical results.

Pesticides/PCBs	SW-846 8082	ug/l	ug/l	ug/l	ug/l
10227	Aroclor 5432	63496-31-1	0.10 U	0.10	0.50
10227	Aroclor 5442	12642-23-8	0.10 U	0.10	0.50
10227	Aroclor 5460	11126-42-4	0.10 U	0.10	0.50
10227	PCB-1016	12674-11-2	0.10 U	0.10	0.50
10227	PCB-1221	11104-28-2	0.10 U	0.10	0.50
10227	PCB-1232	11141-16-5	0.20 U	0.20	0.50
10227	PCB-1242	53469-21-9	0.10 U	0.10	0.50
10227	PCB-1248	12672-29-6	0.10 U	0.10	0.50

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB17-SA5C-010511 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA5C-010511

LLI Sample # WW 6178511
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 12:30

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

EB-17 SDG#: DE053-01EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs SW-846 8082			ug/l	ug/l	ug/l	ug/l	ug/l	
10227	PCB-1254	11097-69-1	0.10 U		0.10	0.50		1
10227	PCB-1260	11096-82-5	0.10 U		0.10	0.50		1
10227	PCB-1262	37324-23-5	0.20 U		0.20	0.50		1
10227	PCB-1268	11100-14-4	0.16 U		0.16	0.50		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.								
Metals SW-846 6010B			mg/l	mg/l	mg/l	mg/l	mg/l	
01743	Aluminum	7429-90-5	0.0834 U		0.0834	0.200		1
08014	Boron	7440-42-8	0.0138 U		0.0138	0.0500		1
01750	Calcium	7440-70-2	0.0787 J		0.0702	0.200		1
01754	Iron	7439-89-6	0.0522 U		0.0522	0.200		1
01756	Lithium	7439-93-2	0.0024 U		0.0024	0.0200		1
01757	Magnesium	7439-95-4	0.0172 U		0.0172	0.100		1
07058	Manganese	7439-96-5	0.00084 U		0.00084	0.0050		1
10143	Phosphorus	7723-14-0	0.0089 U		0.0089	0.100		1
01762	Potassium	7440-09-7	0.239 U		0.239	0.500		1
01767	Sodium	7440-23-5	0.433 U		0.433	1.00		1
08068	Strontium	7440-24-6	0.00089 U		0.00089	0.0050		1
07069	Tin	7440-31-5	0.0098 U		0.0098	0.0200		1
07070	Titanium	7440-32-6	0.0038 U		0.0038	0.0100		1
10144	Zirconium	7440-67-7	0.0206 U		0.0206	0.0500		1
SW-846 6020			mg/l	mg/l	mg/l	mg/l	mg/l	
06024	Antimony	7440-36-0	0.00030 U		0.00030	0.0010		1
06025	Arsenic	7440-38-2	0.00095 U		0.00095	0.0020		1
06026	Barium	7440-39-3	0.00038 U		0.00038	0.0020		1
06027	Beryllium	7440-41-7	0.00013 U		0.00013	0.00050		1
06028	Cadmium	7440-43-9	0.00020 U		0.00020	0.00050		1
06031	Chromium	7440-47-3	0.00060 U		0.00060	0.0020		1
06032	Cobalt	7440-48-4	0.00010 U		0.00010	0.00050		1
06033	Copper	7440-50-8	0.00038 U		0.00038	0.0020		1
06035	Lead	7439-92-1	0.000053 J		0.000052	0.0010		1
06038	Molybdenum	7439-98-7	0.00025 U		0.00025	0.00050		1
06039	Nickel	7440-02-0	0.00050 U		0.00050	0.0020		1
06041	Selenium	7782-49-2	0.00025 U		0.00025	0.0020		1
06042	Silver	7440-22-4	0.000080 U		0.000080	0.00050		1
06045	Thallium	7440-28-0	0.00015 U		0.00015	0.00050		1
06048	Vanadium	7440-62-2	0.00016 U		0.00016	0.00050		1
06049	Zinc	7440-66-6	0.0047 J		0.0040	0.0150		1
SW-846 7470A			mg/l	mg/l	mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000050 U		0.000050	0.00020		1
Wet Chemistry EPA 300.0			mg/l	mg/l	mg/l	mg/l	mg/l	
01504	11b Anions by 300.0 - Fluoride	16984-48-8	0.080 U		0.080	0.10		1
EPA 314.0			ug/l	ug/l	ug/l	ug/l	ug/l	

*—This limit was used in the evaluation of the final result
 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB17-SA5C-010511 Water
 SSFL Area IV Collocated Soil Sampling
 EB17-SA5C-010511

LLI Sample # WW 6178511
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 12:30

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

EB-17 SDG#: DE053-01EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0							
06019	7b Perchlorate EPA 314.0	14797-73-0	0.70 U	0.70	ug/l	ug/l	1
SW-846 7199							
06467	3b Cr VI by EPA 7199	18540-29-9	5.0 U	5.0	ug/l	ug/l	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04678	5b Semivolatiles by EPA 8270C	SW-846 8270C	1	11010WAC026	01/20/2011 14:07	Brian K Graham	1
10137	4b Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11008WAB026	01/15/2011 15:26	Mark A Clark	1
00813	BNA Water Extraction	SW-846 3510C	1	11010WAC026	01/10/2011 21:40	Elaine F Stoltzfus	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	11008WAB026	01/09/2011 15:45	Timothy J Attenberger	1
10227	8b PCBs/PCTs by 8082	SW-846 8082	1	110100018A	01/14/2011 08:31	Lindsey K Lafferty	1
11117	PCB Waters Extraction	SW-846 3510C	1	110100018A	01/11/2011 03:30	Roman Kuropatkin	1
01743	Aluminum	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
08014	Boron	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
01750	Calcium	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
01756	Lithium	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
07058	Manganese	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
10143	Phosphorus	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
01762	Potassium	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
07069	Tin	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
07070	Titanium	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
10144	Zirconium	SW-846 6010B	1	110101848002	01/13/2011 07:42	Joanne M Gates	1
06024	Antimony	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1
06025	Arsenic	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1
06026	Barium	SW-846 6020	1	110106050002D	01/13/2011 16:11	Choon Y Tian	1
06027	Beryllium	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1
06028	Cadmium	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1
06031	Chromium	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1
06032	Cobalt	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1
06033	Copper	SW-846 6020	1	110106050002A	01/13/2011 16:11	Choon Y Tian	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: EB17-SA5C-010511 Water
SSFL Area IV Collocated Soil Sampling
EB17-SA5C-010511

LLI Sample # WW 6178511
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 12:30

CDM Federal Programs Corp.

Submitted: 01/06/2011 09:00

14420 Albemarle Point Place

Reported: 02/07/2011 10:19

Suite 210

Chantilly VA 20151

EB-17 SDG#: DE053-01EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	1	110106050002C	01/13/2011	16:11	Choon Y Tian	1
06039	Nickel	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1
06041	Selenium	SW-846 6020	1	110106050002B	01/13/2011	16:11	Choon Y Tian	1
06042	Silver	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1
06045	Thallium	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1
06048	Vanadium	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1
06049	Zinc	SW-846 6020	1	110106050002A	01/13/2011	16:11	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	110105713005	01/11/2011	07:53	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	110101848002	01/11/2011	08:33	Denise K Conners	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	110106050002	01/11/2011	08:30	Denise K Conners	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	110105713005	01/10/2011	15:45	Nelli S Markaryan	1
01504	11b Anions by 300.0 - Fluoride	EPA 300.0	1	11008196904A	01/08/2011	15:09	Ashley M Adams	1
06019	7b Perchlorate EPA 314.0	EPA 314.0	1	11019621701A	01/19/2011	14:06	William L Hamaker Jr	1
06467	3b Cr VI by EPA 7199	SW-846 7199	1	11006196401A	01/06/2011	10:41	Ashley M Adams	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-027-SA5B-SS-0.0-0.5

LLI Sample # SW 6178512
 LLI Group # 1228000
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:39

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL027 SDG#: DE053-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580		1
04688	Benzidine	92-87-5	1,400	U 1,400	3,900		1
04688	Benzoic acid	65-85-0	190	U 190	580		1
04688	Benzyl alcohol	100-51-6	190	U 190	580		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	39	U 39	190		1
04688	4-Chloroaniline	106-47-8	78	U 78	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	39	U 39	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	120	U 120	390		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	39	U 39	190		1
04688	3,5-Dimethylphenol	108-68-9	39	U 39	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	580		1
04688	2,4-Dinitrophenol	51-28-5	780	U 780	2,300		1
04688	2,4-Dinitrotoluene	121-14-2	39	U 39	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	78	U 78	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	580		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	39	U 39	190		1
04688	4-Methylphenol	106-44-5	39	U 39	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	39	U 39	190		1
04688	4-Nitroaniline	100-01-6	78	U 78	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	580		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	580		1
04688	Phenol	108-95-2	19	U 19	190		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-027-SA5B-SS-0.0-0.5

LLI Sample # SW 6178512
 LLI Group # 1228000
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:39

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL027 SDG#: DE053-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C							
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	190	1
04688	2,4,5-Trichlorophenol	95-95-4	39	U 39	190	190	1
04688	2,4,6-Trichlorophenol	88-06-2	39	U 39	190	190	1
GC/MS Semivolatiles SW-846 8270C SIM							
10138	Acenaphthene	83-32-9	0.78	U 0.78	1.9	1.9	1
10138	Acenaphthylene	208-96-8	0.39	U 0.39	1.9	1.9	1
10138	Anthracene	120-12-7	0.44	J 0.39	1.9	1.9	1
10138	Benzo(a)anthracene	56-55-3	2.1	U 0.78	1.9	1.9	1
10138	Benzo(a)pyrene	50-32-8	3.5	U 0.78	1.9	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	3.7	U 0.78	1.9	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	2.4	U 0.78	1.9	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	2.4	U 0.78	1.9	1.9	1
10138	Butylbenzylphthalate	85-68-7	7.0	U 7.0	21	21	1
10138	Di-n-butylphthalate	84-74-2	7.0	U 7.0	21	21	1
10138	Chrysene	218-01-9	7.9	U 0.39	1.9	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	1.0	J 0.78	1.9	1.9	1
10138	Diethylphthalate	84-66-2	7.0	U 7.0	21	21	1
10138	Dimethylphthalate	131-11-3	7.0	U 7.0	21	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.9	J 7.0	21	21	1
10138	Fluoranthene	206-44-0	1.5	J 0.78	1.9	1.9	1
10138	Fluorene	86-73-7	0.78	U 0.78	1.9	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78	U 0.78	1.9	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.78	U 0.78	1.9	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.78	U 0.78	1.9	1.9	1
10138	Naphthalene	91-20-3	0.78	U 0.78	1.9	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.78	U 0.78	1.9	1.9	1
10138	Di-n-octylphthalate	117-84-0	7.0	U 7.0	21	21	1
10138	Phenanthrene	85-01-8	3.5	U 0.78	1.9	1.9	1
10138	Pyrene	129-00-0	7.2	U 0.78	1.9	1.9	1
Herbicides SW-846 8151A							
10401	2,4-D	94-75-7	7.0	U 7.0	21	21	5
10401	Dalapon	75-99-0	26	U 26	52	52	5
10401	2,4-DB	94-82-6	3.6	U 3.6	9.9	9.9	5
10401	Dicamba	1918-00-9	2.3	U 2.3	7.0	7.0	5
10401	Dinoseb	88-85-7	4.7	U 4.7	14	14	5
10401	2,4-DP (Dichlorprop)	120-36-5	4.7	U 4.7	9.9	9.9	5
10401	MCPA	94-74-6	440	U 440	1,500	1,500	5
10401	MCPP (Mecoprop)	93-65-2	440	U 440	1,500	1,500	5
10401	2,4,5-T	93-76-5	0.48	U 0.48	0.99	0.99	5
10401	2,4,5-TP	93-72-1	0.44	U 0.44	0.99	0.99	5

The recovery for Dinoseb is outside the QC limits. However, this compound does not recover well with this method. Since the recovery is within our laboratory statistical limits of 0-36%, the data is reported.

Due to the nature of the sample extract matrix, a dilution was used for the analysis. The reporting limits were raised accordingly.

Pesticides/PCBs SW-846 8081A

*—This limit was used in the evaluation of the final result
 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-027-SA5B-SS-0.0-0.5

LLI Sample # SW 6178512
 LLI Group # 1228000
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:39

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL027 SDG#: DE053-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		SW-846 8081A	ug/kg	ug/kg	ug/kg	ug/kg	
01363	Aldrin	309-00-2	0.077 U	0.077	0.19		1
01363	Alpha BHC	319-84-6	0.040 U	0.040	0.19		1
01363	Beta BHC	319-85-7	0.070 U	0.070	0.19		1
01363	Gamma BHC - Lindane	58-89-9	0.040 U	0.040	0.19		1
01363	Chlordane	57-74-9	0.93 U	0.93	4.0		1
01363	p,p-DDD	72-54-8	0.077 U	0.077	0.40		1
01363	p,p-DDE	72-55-9	0.31 J	0.077	0.40		1
01363	p,p-DDT	50-29-3	0.16 J	0.077	0.40		1
01363	Delta BHC	319-86-8	0.042 U	0.042	0.19		1
01363	Dieldrin	60-57-1	0.077 U	0.077	0.40		1
01363	Endosulfan I	959-98-8	0.051 U	0.051	0.19		1
01363	Endosulfan II	33213-65-9	0.077 U	0.077	0.40		1
01363	Endosulfan Sulfate	1031-07-8	0.077 U	0.077	0.40		1
01363	Endrin	72-20-8	0.077 U	0.077	0.40		1
01363	Endrin Aldehyde	7421-93-4	0.077 U	0.077	0.40		1
01363	Endrin Ketone	53494-70-5	0.077 U	0.077	0.40		1
01363	Heptachlor	76-44-8	0.070 U	0.070	0.19		1
01363	Heptachlor Epoxide	1024-57-3	0.040 U	0.040	0.19		1
01363	Methoxychlor	72-43-5	0.40 U	0.40	1.9		1
01363	Mirex	2385-85-5	0.077 U	0.077	0.40		1
01363	Toxaphene	8001-35-2	2.6 U	2.6	7.7		1

Various analytes in the calibration check standards bracketing the sample were outside the acceptance criteria. This effect is attributed to the sample matrix based on our experience with the site, and the data is reported.

Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg
10225	Aroclor 5432	63496-31-1	1.2 U	1.2	3.8	1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	3.8	1
10225	Aroclor 5460	11126-42-4	1.2 U	1.2	3.8	1
10225	PCB-1016	12674-11-2	0.38 U	0.38	2.0	1
10225	PCB-1221	11104-28-2	0.58 U	0.58	2.0	1
10225	PCB-1232	11141-16-5	0.61 U	0.61	2.0	1
10225	PCB-1242	53469-21-9	0.58 U	0.58	2.0	1
10225	PCB-1248	12672-29-6	0.38 U	0.38	2.0	1
10225	PCB-1254	11097-69-1	0.38 U	0.38	2.0	1
10225	PCB-1260	11096-82-5	0.38 U	0.38	2.0	1
10225	PCB-1262	37324-23-5	0.38 U	0.38	2.0	1
10225	PCB-1268	11100-14-4	0.38 U	0.38	2.0	1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	17,900	5.75	22.9	1
07914	Boron	7440-42-8	1.02 U	1.02	5.71	1
01650	Calcium	7440-70-2	2,290	7.00	22.9	1
01654	Iron	7439-89-6	19,000	5.38	22.9	1
01656	Lithium	7439-93-2	18.5	0.25	2.3	1
01657	Magnesium	7439-95-4	4,030	2.90	11.4	1
06958	Manganese	7439-96-5	303	0.0891	0.571	1
10145	Phosphorus	7723-14-0	277	0.640	11.4	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-027-SA5B-SS-0.0-0.5

LLI Sample # SW 6178512
 LLI Group # 1228000
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:39

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL027 SDG#: DE053-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01662	Potassium	7440-09-7	2,590	20.6	57.1		1
01667	Sodium	7440-23-5	128	42.6	114		1
07968	Strontium	7440-24-6	21.1	0.0708	0.571		1
06969	Tin	7440-31-5	2.44 J	1.14	11.4		1
06970	Titanium	7440-32-6	1,370	0.434	1.14		1
10146	Zirconium	7440-67-7	2.27 J	0.960	5.71		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.285	0.0686	0.229		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.82	0.0686	0.457		2
06126	Barium	7440-39-3	119	0.123	0.457		2
06127	Beryllium	7440-41-7	0.733	0.0183	0.114		2
06128	Cadmium	7440-43-9	0.154	0.0411	0.114		2
06131	Chromium	7440-47-3	19.1	0.137	0.457		2
06132	Cobalt	7440-48-4	5.97	0.0229	0.114		2
06133	Copper	7440-50-8	8.66	0.0754	0.457		2
06135	Lead	7439-92-1	6.81	0.0119	0.229		2
06138	Molybdenum	7439-98-7	0.766	0.0571	0.114		2
06139	Nickel	7440-02-0	10.9	0.114	0.457		2
06141	Selenium	7782-49-2	0.177 J	0.0457	0.457		2
06142	Silver	7440-22-4	0.0351 J	0.0137	0.114		2
06145	Thallium	7440-28-0	0.279	0.0343	0.114		2
06148	Vanadium	7440-62-2	49.6	0.0251	0.114		2
06149	Zinc	7440-66-6	47.7	0.640	3.43		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0033 U	0.0033	0.114		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5	0.93	1.2		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.5 U	10.5	35.0		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.49 J	0.23	1.2		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	380	10.0	10.0		1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	

*-This limit was used in the evaluation of the final result
 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-027-SA5B-SS-0.0-0.5

LLI Sample # SW 6178512
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:39

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL027 SDG#: DE053-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	6.51	0.0100	0.0100		1
Wet Chemistry							
		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	14.2	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 20:59	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 14:09	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	110060007A	01/12/2011 14:33	Michele D Hamilton	5
01363	12a Pesticides by 8081A	SW-846 8081A	1	110170031A	02/03/2011 06:29	Jamie L Brillhart	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 03:35	Lindsey K Lafferty	1
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	110170031A	01/18/2011 08:30	Kerrie A Freeburn	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
04181	Herbicide Soil Extraction	SW-846 3550B/SW-846 8151A	1	110060007A	01/07/2011 02:20	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 12:57	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 09:10	Joanne M Gates	1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-027-SA5B-SS-0.0-0.5 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-027-SA5B-SS-0.0-0.5

LLI Sample # SW 6178512
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 15:39

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL027 SDG#: DE053-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011	09:10	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011	09:10	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011	09:10	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011	12:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011	12:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011	12:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011	12:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011	07:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011	20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011	20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011	22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202A	01/19/2011	16:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201A	01/18/2011	15:45	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011	02:52	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202A	01/17/2011	19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201A	01/17/2011	12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011	13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011	13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011	10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011	18:17	Scott W Freisher	1

*—This limit was used in the evaluation of the final result
 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
 LLI Group # 1228000
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL038 SDG#: DE053-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6 U	6.6	7.9		0.89
06192	Benzene	71-43-2	0.1 U	0.1	4.0		0.89
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0		0.89
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0		0.89
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0		0.89
06192	Bromoform	75-25-2	0.40 U	0.40	4.0		0.89
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0		0.89
06192	2-Butanone	78-93-3	1.2 U	1.2	7.9		0.89
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0		0.89
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0		0.89
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0		0.89
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0		0.89
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0		0.89
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0		0.89
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0		0.89
06192	Chloroform	67-66-3	0.12 U	0.12	4.0		0.89
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0		0.89
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0		0.89
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0		0.89
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9		0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69 U	0.69	4.0		0.89
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0		0.89
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0		0.89
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0		0.89
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0		0.89
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0		0.89
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0		0.89
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0		0.89
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	4.0		0.89
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0		0.89
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0		0.89
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0		0.89
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0		0.89
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0		0.89
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0		0.89
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0		0.89
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0		0.89
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0		0.89
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0		0.89
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0		0.89
06192	Freon 113	76-13-1	0.11 U	0.11	4.0		0.89
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9		0.89
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0		0.89
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.9		0.89
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0		0.89
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0		0.89
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0		0.89
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	7.9		0.89
06192	Methylene Chloride	75-09-2	0.62 J	0.24	4.0		0.89
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0		0.89

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL038 SDG#: DE053-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.1 U	0.1	4.0		0.89
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0		0.89
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0		0.89
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0		0.89
06192	Toluene	108-88-3	0.08 U	0.08	4.0		0.89
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0		0.89
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0		0.89
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0		0.89
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0		0.89
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0		0.89
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0		0.89
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0		0.89
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0		0.89
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	4.0		0.89
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0		0.89
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0		0.89
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0		0.89
GC/MS Volatiles		SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.8 U	4.8	14		21.59
GC/MS Semivolatiles		SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	560		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700		1
04688	Benzoic acid	65-85-0	190	U 190	560		1
04688	Benzyl alcohol	100-51-6	190	U 190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	190		1
04688	4-Chloroaniline	106-47-8	74	U 74	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	190		1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560		1
04688	2,4-Dinitrophenol	51-28-5	740	U 740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	190		1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190		1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
 LLI Group # 1228000
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL038 SDG#: DE053-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190		1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190		1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560		1
04688	Hexachloroethane	67-72-1	19	U 19	190		1
04688	Isophorone	78-59-1	19	U 19	190		1
04688	2-Methylphenol	95-48-7	37	U 37	190		1
04688	4-Methylphenol	106-44-5	37	U 37	190		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	19	U 19	190		1
04688	3-Nitroaniline	99-09-2	37	U 37	190		1
04688	4-Nitroaniline	100-01-6	74	U 74	190		1
04688	Nitrobenzene	98-95-3	19	U 19	190		1
04688	2-Nitrophenol	88-75-5	19	U 19	190		1
04688	4-Nitrophenol	100-02-7	190	U 190	560		1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190		1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190	U 190	560		1
04688	Phenol	108-95-2	19	U 19	190		1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9		1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9		1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9		1
10138	Benzo(a)anthracene	56-55-3	0.74	U 0.74	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7	U 6.7	20		1
10138	Chrysene	218-01-9	0.37	U 0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.9		1
10138	Diethylphthalate	84-66-2	6.7	U 6.7	20		1
10138	Dimethylphthalate	131-11-3	6.7	U 6.7	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.7	U 6.7	20		1
10138	Fluoranthene	206-44-0	0.74	U 0.74	1.9		1
10138	Fluorene	86-73-7	0.74	U 0.74	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.74	U 0.74	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.74	U 0.74	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.74	U 0.74	1.9		1
10138	Naphthalene	91-20-3	0.74	U 0.74	1.9		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
 LLI Group # 1228000
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL038 SDG#: DE053-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.74 U	0.74	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20		1
10138	Phenanthrene	85-01-8	0.74 U	0.74	1.9		1
10138	Pyrene	129-00-0	0.74 U	0.74	1.9		1
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9		1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.56 U	0.56	1.9		1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9		1
10225	PCB-1254	11097-69-1	0.37 U	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.37 U	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	16,600	5.53	22.0	1
07914	Boron	7440-42-8	0.979 U	0.979	5.50	1
01650	Calcium	7440-70-2	2,230	6.74	22.0	1
01654	Iron	7439-89-6	19,100	5.18	22.0	1
01656	Lithium	7439-93-2	24.4	0.24	2.2	1
01657	Magnesium	7439-95-4	3,710	2.79	11.0	1
06958	Manganese	7439-96-5	217	0.0858	0.550	1
10145	Phosphorus	7723-14-0	227	0.616	11.0	1
01662	Potassium	7440-09-7	2,520	19.8	55.0	1
01667	Sodium	7440-23-5	80.5 J	41.0	110	1
07968	Strontium	7440-24-6	17.4	0.0682	0.550	1
06969	Tin	7440-31-5	2.64 J	1.10	11.0	1
06970	Titanium	7440-32-6	1,220	0.418	1.10	1
10146	Zirconium	7440-67-7	1.45 J	0.924	5.50	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg
06124	Antimony	7440-36-0	0.0722 J	0.0647	0.216	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	4.00	0.0647	0.431	2
06126	Barium	7440-39-3	89.7	0.117	0.431	2
06127	Beryllium	7440-41-7	0.562	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.0763 J	0.0388	0.108	2
06131	Chromium	7440-47-3	16.7	0.129	0.431	2
06132	Cobalt	7440-48-4	4.08	0.0216	0.108	2
06133	Copper	7440-50-8	4.83	0.0712	0.431	2

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 Shaded result = The results or reporting limit exceeded the client-provided action limit.



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
 LLI Group # 1228000
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL038 SDG#: DE053-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	5.03	0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.409	0.0539	0.108		2
06139	Nickel	7440-02-0	9.00	0.108	0.431		2
06141	Selenium	7782-49-2	0.0927 J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0235 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.283	0.0324	0.108		2
06148	Vanadium	7440-62-2	33.9	0.0237	0.108		2
06149	Zinc	7440-66-6	59.2	0.604	3.24		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.9	0.89	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.3		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.37 J	0.22	1.1		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	453	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.70	0.0100	0.0100		1
Wet Chemistry							
		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	10	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-038-SA5C-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

*-This limit was used in the evaluation of the final result
 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL038 SDG#: DE053-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 15:36	Chelsea B Eastep	0.89
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 20:02	Sara E Johnson	21.59
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:54	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100623454	01/06/2011 15:00	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011 14:55	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 21:34	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 14:42	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 03:53	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:19	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 09:34	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:30	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:21	Damary Valentin	1

*—This limit was used in the evaluation of the final result
 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-038-SA5C-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-038-SA5C-SB-4.0-5.0

LLI Sample # SW 6178513
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 09:45

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL038 SDG#: DE053-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 16:29	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 16:08	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 03:04	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*-This limit was used in the evaluation of the final result
 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
 LLI Group # 1228000
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:10

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL654 SDG#: DE053-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9 U	6.9	8.3		0.93
06192	Benzene	71-43-2	0.10 U	0.10	4.1		0.93
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1		0.93
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1		0.93
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1		0.93
06192	Bromoform	75-25-2	0.41 U	0.41	4.1		0.93
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1		0.93
06192	2-Butanone	78-93-3	1.3 U	1.3	8.3		0.93
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1		0.93
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1		0.93
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.1		0.93
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.1		0.93
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1		0.93
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1		0.93
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1		0.93
06192	Chloroform	67-66-3	0.12 U	0.12	4.1		0.93
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1		0.93
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.1		0.93
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.1		0.93
06192	Chlorotrifluoroethene	79-38-9	0.52 U	0.52	5.2		0.93
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72 U	0.72	4.1		0.93
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.1		0.93
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.1		0.93
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1		0.93
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1		0.93
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1		0.93
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.1		0.93
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1		0.93
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1		0.93
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.1		0.93
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1		0.93
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.1		0.93
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1		0.93
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.1		0.93
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1		0.93
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.1		0.93
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1		0.93
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.1		0.93
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.1		0.93
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1		0.93
06192	Freon 113	76-13-1	0.11 U	0.11	4.1		0.93
06192	Freon 133a	75-88-7	0.52 U	0.52	5.2		0.93
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.1		0.93
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.3		0.93
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1		0.93
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1		0.93
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.1		0.93
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.3		0.93
06192	Methylene Chloride	75-09-2	0.45 J	0.25	4.1		0.93
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1		0.93

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:10

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL654 SDG#: DE053-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	4.1		0.93
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1		0.93
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1		0.93
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.1		0.93
06192	Toluene	108-88-3	0.08 U	0.08	4.1		0.93
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.1		0.93
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.1		0.93
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.1		0.93
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1		0.93
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.1		0.93
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1		0.93
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1		0.93
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1		0.93
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1		0.93
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.1		0.93
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.1		0.93
06192	o-Xylene	95-47-6	0.18 U	0.18	4.1		0.93
GC/MS Volatiles		SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.0 U	5.0	15		22.73
GC/MS Semivolatiles		SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	550		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U 180	550		1
04688	Benzyl alcohol	100-51-6	180	U 180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	180		1
04688	4-Chloroaniline	106-47-8	74	U 74	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	550		1
04688	2,4-Dinitrophenol	51-28-5	740	U 740	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1

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Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
 LLI Group # 1228000
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:10

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL654 SDG#: DE053-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	74	U 74	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	550		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	37	U 37	180		1
04688	4-Methylphenol	106-44-5	37	U 37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	37	U 37	180		1
04688	4-Nitroaniline	100-01-6	74	U 74	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	550		1
04688	Phenol	108-95-2	18	U 18	180		1
04688	1,2,4-Trichlorobenzene	120-82-1	18	U 18	180		1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	180		1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	180		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.8		1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.8		1
10138	Anthracene	120-12-7	0.37	U 0.37	1.8		1
10138	Benzo(a)anthracene	56-55-3	4.1	0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	2.5	0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	6.9	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	1.3	J 0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	4.5	0.74	1.8		1
10138	Butylbenzylphthalate	85-68-7	6.6	U 6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U 6.6	20		1
10138	Chrysene	218-01-9	5.3	0.37	1.8		1
10138	Dibenz(a,h)anthracene	53-70-3	0.74	U 0.74	1.8		1
10138	Diethylphthalate	84-66-2	6.6	U 6.6	20		1
10138	Dimethylphthalate	131-11-3	6.6	U 6.6	20		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.6	U 6.6	20		1
10138	Fluoranthene	206-44-0	3.5	0.74	1.8		1
10138	Fluorene	86-73-7	0.74	U 0.74	1.8		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.3	J 0.74	1.8		1
10138	1-Methylnaphthalene	90-12-0	0.74	U 0.74	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.74	U 0.74	1.8		1
10138	Naphthalene	91-20-3	0.74	U 0.74	1.8		1

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Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:10

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL654 SDG#: DE053-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles		SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	N-Nitrosodimethylamine	62-75-9	0.74 U	0.74	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20		1
10138	Phenanthrene	85-01-8	1.3 J	0.74	1.8		1
10138	Pyrene	129-00-0	3.2	0.74	1.8		1
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.58 U	0.58	1.9		1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.37 U	0.37	1.9		1
10225	PCB-1254	11097-69-1	1.2 J	0.37	1.9		1
10225	PCB-1260	11096-82-5	0.62 J	0.37	1.9		1
10225	PCB-1262	37324-23-5	0.37 U	0.37	1.9		1
10225	PCB-1268	11100-14-4	0.37 U	0.37	1.9		1

The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg
01643	Aluminum	7429-90-5	13,900	5.41	21.5	1
07914	Boron	7440-42-8	0.957 U	0.957	5.38	1
01650	Calcium	7440-70-2	5,040	6.59	21.5	1
01654	Iron	7439-89-6	24,200	5.06	21.5	1
01656	Lithium	7439-93-2	33.5	0.24	2.2	1
01657	Magnesium	7439-95-4	5,400	2.73	10.8	1
06958	Manganese	7439-96-5	308	0.0839	0.538	1
10145	Phosphorus	7723-14-0	524	0.602	10.8	1
01662	Potassium	7440-09-7	2,740	19.4	53.8	1
01667	Sodium	7440-23-5	329	40.1	108	1
07968	Strontium	7440-24-6	21.8	0.0667	0.538	1
06969	Tin	7440-31-5	2.83 J	1.08	10.8	1
06970	Titanium	7440-32-6	1,390	0.409	1.08	1
10146	Zirconium	7440-67-7	1.26 J	0.903	5.38	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg
06124	Antimony	7440-36-0	0.244	0.0639	0.213	2
Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	9.26	0.0639	0.426	2
06126	Barium	7440-39-3	91.7	0.115	0.426	2
06127	Beryllium	7440-41-7	0.678	0.0170	0.106	2
06128	Cadmium	7440-43-9	0.130	0.0383	0.106	2
06131	Chromium	7440-47-3	25.0	0.128	0.426	2
06132	Cobalt	7440-48-4	6.08	0.0213	0.106	2
06133	Copper	7440-50-8	12.3	0.0703	0.426	2

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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
 LLI Group # 1228000
 Account # 13013

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SL654 SDG#: DE053-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	7.24	0.0111	0.213		2
06138	Molybdenum	7439-98-7	0.680	0.0532	0.106		2
06139	Nickel	7440-02-0	15.9	0.106	0.426		2
06141	Selenium	7782-49-2	0.176 J	0.0426	0.426		2
06142	Silver	7440-22-4	0.0171 J	0.0128	0.106		2
06145	Thallium	7440-28-0	0.430	0.0319	0.106		2
06148	Vanadium	7440-62-2	51.4	0.0234	0.106		2
06149	Zinc	7440-66-6	82.0	0.596	3.19		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.108		1
Wet Chemistry							
		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.89 U	0.89	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.24 J	0.22	1.1		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	374	10.0	10.0		1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	9.69	0.0100	0.0100		1
Wet Chemistry							
		EPA 160.3 modified	%	%	%	%	
11624	28a Moisture Content by 160.3	n.a.	9.7	0.50	0.50		1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.							

General Sample Comments

State of California Lab Certification No. 2501
 The volatile analysis was performed on soil from SL-065-SA5B-SB-4.5.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
LLI Group # 1228000
Account # 13013

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Submitted: 01/06/2011 09:00

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SL654 SDG#: DE053-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B110071AA	01/07/2011 15:59	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E110071AA	01/07/2011 20:22	Sara E Johnson	22.73
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201100623454	01/06/2011 14:57	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201100623454	01/06/2011 15:01	Larry E Bevins	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201100623454	01/06/2011 14:58	Larry E Bevins	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	11006SLA026	01/20/2011 22:09	Gregory J Drahovsky	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	11006SLC026	01/14/2011 15:15	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	11006SLC026	01/06/2011 18:20	Sally L Appleyard	1
00381	BNA Soil Sonication	SW-846 3550B	1	11006SLA026	01/06/2011 16:30	JoElla L Rice	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	110080006A	01/14/2011 04:12	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	110080006A	01/10/2011 04:00	Sherry L Morrow	1
01643	Aluminum	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	110065708002	01/17/2011 13:23	Eric L Eby	1
01650	Calcium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
01654	Iron	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
01656	Lithium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
01657	Magnesium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
06958	Manganese	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
10145	Phosphorus	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
01662	Potassium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
01667	Sodium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
07968	Strontium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
06969	Tin	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
06970	Titanium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
10146	Zirconium	SW-846 6010B	1	110065708002	01/13/2011 09:45	Joanne M Gates	1
06124	Antimony	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	110061026001D	01/12/2011 12:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	110061026001C	01/12/2011 12:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	110061026001B	01/12/2011 12:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	110061026001A	01/12/2011 12:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	110065711001	01/10/2011 07:23	Damary Valentin	1

*—This limit was used in the evaluation of the final result
 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-065-SA5B-SB-4.0-5.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-065-SA5B-SB-4.0-5.0

LLI Sample # SW 6178514
LLI Group # 1228000
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:10

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL654 SDG#: DE053-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05708	SW SW846 ICP Digest	SW-846 3050B	1	110065708002	01/06/2011 20:12	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	110061026001	01/06/2011 20:58	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	110065711001	01/06/2011 22:50	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	11017017202B	01/19/2011 17:12	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	11017017201B	01/18/2011 17:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	11018243201A	01/21/2011 03:17	Ashley M Adams	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	11017017202B	01/17/2011 19:30	Joseph E McKenzie	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	11017017201B	01/17/2011 12:45	William L Hamaker Jr	1
01821	Oxidation Reduction Potential	ASTM D1498	1	11007182101A	01/07/2011 13:00	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	11007039401A	01/07/2011 13:00	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	11018243201A	01/18/2011 10:30	Michelle L Lalli	1
11624	28a Moisture Content by 160.3	EPA 160.3 modified	1	11012162401B	01/12/2011 18:17	Scott W Freisher	1

*=This limit was used in the evaluation of the final result
 Shaded result = The results or reporting limit exceeded the client-provided action limit.

Sample Description: SL-065-SA5B-SB-9.0-10.0 Soil
 SSFL Area IV Collocated Soil Sampling
 SL-065-SA5B-SB-9.0-10.0

LLI Sample # SW 6178515
 LLI Group # 1228000
 Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 01/05/2011 10:14

CDM Federal Programs Corp.
 14420 Albemarle Point Place
 Suite 210
 Chantilly VA 20151

Submitted: 01/06/2011 09:00

Reported: 02/07/2011 10:19

SL659 SDG#: DE053-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	180	U 180	550		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,700		1
04688	Benzoic acid	65-85-0	180	U 180	550		1
04688	Benzyl alcohol	100-51-6	180	U 180	550		1
04688	4-Bromophenyl-phenylether	101-55-3	18	U 18	180		1
04688	Carbazole	86-74-8	18	U 18	180		1
04688	4-Chloro-3-methylphenol	59-50-7	37	U 37	180		1
04688	4-Chloroaniline	106-47-8	73	U 73	180		1
04688	bis(2-Chloroethoxy)methane	111-91-1	18	U 18	180		1
04688	bis(2-Chloroethyl)ether	111-44-4	18	U 18	180		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	18	U 18	180		1
04688	2-Chloronaphthalene	91-58-7	18	U 18	180		1
04688	2-Chlorophenol	95-57-8	18	U 18	180		1
04688	4-Chlorophenyl-phenylether	7005-72-3	37	U 37	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1
04688	1,2-Dichlorobenzene	95-50-1	18	U 18	180		1
04688	1,3-Dichlorobenzene	541-73-1	18	U 18	180		1
04688	1,4-Dichlorobenzene	106-46-7	18	U 18	180		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	370		1
04688	2,4-Dichlorophenol	120-83-2	18	U 18	180		1
04688	2,4-Dimethylphenol	105-67-9	37	U 37	180		1
04688	3,5-Dimethylphenol	108-68-9	37	U 37	180		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	180	U 180	550		1
04688	2,4-Dinitrophenol	51-28-5	730	U 730	2,200		1
04688	2,4-Dinitrotoluene	121-14-2	37	U 37	180		1
04688	2,6-Dinitrotoluene	606-20-2	18	U 18	180		1
04688	1,2-Diphenylhydrazine	122-66-7	18	U 18	180		1
04688	Hexachlorobenzene	118-74-1	18	U 18	180		1
04688	Hexachlorobutadiene	87-68-3	73	U 73	180		1
04688	Hexachlorocyclopentadiene	77-47-4	180	U 180	550		1
04688	Hexachloroethane	67-72-1	18	U 18	180		1
04688	Isophorone	78-59-1	18	U 18	180		1
04688	2-Methylphenol	95-48-7	37	U 37	180		1
04688	4-Methylphenol	106-44-5	37	U 37	180		1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04688	2-Nitroaniline	88-74-4	18	U 18	180		1
04688	3-Nitroaniline	99-09-2	37	U 37	180		1
04688	4-Nitroaniline	100-01-6	73	U 73	180		1
04688	Nitrobenzene	98-95-3	18	U 18	180		1
04688	2-Nitrophenol	88-75-5	18	U 18	180		1
04688	4-Nitrophenol	100-02-7	180	U 180	550		1
04688	N-Nitroso-di-n-propylamine	621-64-7	18	U 18	180		1
04688	N-Nitrosodiphenylamine	86-30-6	18	U 18	180		1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	180	U 180	550		1
04688	Phenol	108-95-2	18	U 18	180		1

*=This limit was used in the evaluation of the final result

Shaded result = The results or reporting limit exceeded the client-provided action limit.