

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:11 AM

Group Number: 1221905

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCS D Limits</u>	<u>RPD</u>	<u>RPD Max</u>
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	101		90-110		
Batch number: 10336336202A	Sample number(s): 6144599-6144600								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	99		85-115		
Batch number: 10340243201A	Sample number(s): 6144589-6144590, 6144592-6144597, 6144599-6144600								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10322039403B	Sample number(s): 6144589, 6144592-6144597, 6144599-6144600								
22a pH by 9045C					101		95-105		
Batch number: 10322182103B	Sample number(s): 6144589, 6144592-6144597, 6144599-6144600								
Oxidation Reduction Potential					98		98-102		
Batch number: 10327162401B	Sample number(s): 6144589-6144597								
28a Total Solids by 160.3					100		80-120		
28a Total Solids by 160.3					100		80-120		
28a Total Solids by 160.3					100		80-120		
Batch number: 10342162401A	Sample number(s): 6144599-6144600								
28a Total Solids by 160.3					100		80-120		

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</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103232AA	Sample number(s): 6144589, 6144594, 6144597, 6144599 UNSPK: 6144589								
Acetone	188		15-210						
Benzene	103		55-143						
Bromobenzene	95		43-139						
Bromochloromethane	127		60-137						
Bromodichloromethane	98		53-136						
Bromoform	82		38-124						
Bromomethane	98		42-168						
2-Butanone	113		37-163						
n-Butylbenzene	105		30-146						
sec-Butylbenzene	108		33-157						
tert-Butylbenzene	96		41-152						
Carbon Tetrachloride	96		45-153						
Chlorobenzene	97		49-135						
Chloroethane	99		39-152						
2-Chloroethyl Vinyl Ether	82		32-139						
Chloroform	102		61-142						
Chloromethane	98		51-163						
2-Chlorotoluene	100		42-146						
4-Chlorotoluene	100		39-145						
1,2-Dibromo-3-chloropropane	86		30-139						
Dibromochloromethane	93		51-128						
1,2-Dibromoethane	92		54-129						
Dibromomethane	94		57-130						

*- Outside of specification

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2-Dichlorobenzene	94		36-133						
1,3-Dichlorobenzene	96		34-134						
1,4-Dichlorobenzene	94		35-136						
Dichlorodifluoromethane	77		26-151						
1,1-Dichloroethane	103		63-142						
1,2-Dichloroethane	98		68-131						
1,1-Dichloroethene	105		61-149						
cis-1,2-Dichloroethene	97		60-136						
trans-1,2-Dichloroethene	86		59-142						
1,2-Dichloropropane	102		62-135						
1,3-Dichloropropane	99		58-129						
2,2-Dichloropropane	81		53-147						
1,1-Dichloropropene	103		54-145						
cis-1,3-Dichloropropene	89		51-131						
trans-1,3-Dichloropropene	85		49-129						
Ethylbenzene	102		44-141						
Freon 113	119		56-156						
Hexachlorobutadiene	91		10-155						
2-Hexanone	102		32-160						
Isopropylbenzene	97		38-144						
p-Isopropyltoluene	103		29-152						
Methyl Tertiary Butyl Ether	80		55-129						
4-Methyl-2-pentanone	87		46-139						
Methylene Chloride	110		61-141						
n-Propylbenzene	112		39-157						
Styrene	94		35-134						
1,1,1,2-Tetrachloroethane	93		52-130						
1,1,1,2-Tetrachloroethane	101		40-152						
Tetrachloroethene	92		42-149						
Toluene	101		50-146						
1,2,3-Trichlorobenzene	85		10-140						
1,2,4-Trichlorobenzene	83		10-136						
1,1,1-Trichloroethane	95		64-142						
1,1,2-Trichloroethane	94		54-139						
Trichloroethene	98		53-144						
Trichlorofluoromethane	109		47-163						
1,2,3-Trichloropropane	95		45-154						
1,2,4-Trimethylbenzene	104		37-149						
1,3,5-Trimethylbenzene	103		38-150						
Vinyl Chloride	91		50-154						
m+p-Xylene	96		44-137						
o-Xylene	93		42-137						

Batch number: E103231AA
1,4-Dioxane

Sample number(s): 6144598 UNSPK: P144810
104 (2) 149 (2) 50-150 8 30

Batch number: 10323SLC026
Acenaphthene
Acenaphthylene
Aniline
Anthracene
Benzidine
Benzo(a)anthracene

Sample number(s): 6144589-6144591,6144593-6144597,6144599-6144600 UNSPK: 6144589
87 94 75-115 8 30
86 93 49-126 8 30
57 62 14-114 9 30
90 97 75-115 8 30
21* 0* 35-141 200* 30
93 100 65-122 7 30

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Benzo(a)pyrene	111	121	57-126	8	30				
Benzo(b)fluoranthene	123	131*	59-125	6	30				
Benzo(g,h,i)perylene	106	116	59-127	9	30				
Benzo(k)fluoranthene	107	117	56-132	9	30				
Benzoic acid	32	36	10-173	12	30				
Benzyl alcohol	84	95	55-123	12	30				
4-Bromophenyl-phenylether	91	97	67-129	6	30				
Butylbenzylphthalate	95	104	73-134	9	30				
Di-n-butylphthalate	92	97	67-123	6	30				
Carbazole	92	96	64-120	4	30				
4-Chloro-3-methylphenol	90	95	53-130	6	30				
4-Chloroaniline	60	64	23-95	5	30				
bis(2-Chloroethoxy)methane	83	90	54-117	9	30				
bis(2-Chloroethyl)ether	81	88	60-116	9	30				
bis(2-Chloroisopropyl)ether	71	79	55-142	10	30				
2-Chloronaphthalene	85	92	50-141	8	30				
2-Chlorophenol	87	95	73-121	8	30				
4-Chlorophenyl-phenylether	94	101	64-119	7	30				
Chrysene	89	95	62-128	7	30				
Dibenz(a,h)anthracene	107	118	65-125	9	30				
Dibenzofuran	92	97	71-112	6	30				
1,2-Dichlorobenzene	79	87	66-108	10	30				
1,3-Dichlorobenzene	79	88	63-109	11	30				
1,4-Dichlorobenzene	83	91	53-113	9	30				
3,3'-Dichlorobenzidine	58	69	25-123	18	30				
2,4-Dichlorophenol	91	99	78-117	8	30				
Diethylphthalate	91	95	66-118	4	30				
2,4-Dimethylphenol	88	95	56-130	8	30				
3,5-Dimethylphenol	101	108	70-130	7	30				
Dimethylphthalate	91	96	64-118	6	30				
4,6-Dinitro-2-methylphenol	63	75	10-148	17	30				
2,4-Dinitrophenol	44	51	20-143	16	30				
2,4-Dinitrotoluene	93	95	57-114	2	30				
2,6-Dinitrotoluene	90	97	69-123	8	30				
1,2-Diphenylhydrazine	85	92	71-129	7	30				
bis(2-Ethylhexyl)phthalate	96	104	63-122	8	30				
Fluoranthene	90	93	59-122	3	30				
Fluorene	93	96	60-125	3	30				
Hexachlorobenzene	91	96	61-111	5	30				
Hexachlorobutadiene	82	90	62-120	9	30				
Hexachlorocyclopentadiene	80	75	10-153	7	30				
Hexachloroethane	77	84	57-109	8	30				
Indeno(1,2,3-cd)pyrene	106	119	61-126	11	30				
Isophorone	79	87	51-118	9	30				
1-Methylnaphthalene	89	97	73-112	9	30				
2-Methylnaphthalene	82	88	76-114	8	30				
2-Methylphenol	85	92	47-142	8	30				
4-Methylphenol	82	89	55-126	8	30				
Naphthalene	85	93	72-116	8	30				
2-Nitroaniline	90	96	67-125	7	30				
3-Nitroaniline	86	91	59-122	5	30				
4-Nitroaniline	74	75	52-112	1	30				
Nitrobenzene	81	90	51-114	11	30				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitrophenol	88	97	74-115	10	30				
4-Nitrophenol	72	76	39-133	5	30				
N-Nitroso-di-n-propylamine	74	83	60-116	12	30				
N-Nitrosodimethylamine	78	85	47-116	9	30				
N-Nitrosodiphenylamine	91	97	86-145	7	30				
Di-n-octylphthalate	128*	141*	56-126	9	30				
Pentachlorophenol	76	84	17-149	10	30				
Phenanthrene	91	95	65-125	5	30				
Phenol	80	88	58-126	10	30				
Pyrene	96	103	51-151	6	30				
1,2,4-Trichlorobenzene	85	93	72-115	9	30				
2,4,5-Trichlorophenol	94	99	34-139	5	30				
2,4,6-Trichlorophenol	93	99	49-140	7	30				
Batch number: 10324SLD026 Sample number(s): 6144589-6144591, 6144593-6144597, 6144599-6144600 UNSPK: 6144589									
Acenaphthene	93	93	63-105	0	30				
Acenaphthylene	91	92	55-126	1	30				
Anthracene	99	99	46-136	1	30				
Benzo(a)anthracene	104	101	39-144	3	30				
Benzo(a)pyrene	114	114	34-156	1	30				
Benzo(b)fluoranthene	124	122	43-155	1	30				
Benzo(g,h,i)perylene	103	100	33-141	3	30				
Benzo(k)fluoranthene	122	121	42-144	1	30				
Butylbenzylphthalate	108	109	73-140	1	30				
Di-n-butylphthalate	114	112	78-160	2	30				
Chrysene	104	101	29-156	3	30				
Dibenz(a,h)anthracene	105	102	41-130	3	30				
Diethylphthalate	109	108	87-131	1	30				
Dimethylphthalate	106	106	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	108	107	39-167	1	30				
Fluoranthene	102	101	26-166	1	30				
Fluorene	103	103	45-121	0	30				
Indeno(1,2,3-cd)pyrene	104	102	21-143	2	30				
1-Methylnaphthalene	99	98	72-123	1	30				
2-Methylnaphthalene	89	87	28-121	2	30				
Naphthalene	95	94	61-102	1	30				
N-Nitrosodimethylamine	88	91	48-113	3	30				
Di-n-octylphthalate	119	119	40-192	0	30				
Phenanthrene	100	100	12-165	1	30				
Pyrene	101	99	15-153	2	30				
Batch number: 10333SLD026 Sample number(s): 6144599-6144600 UNSPK: 6144599									
N-Nitrosodimethylamine	100	105	70-130	5	30				
Batch number: 103270005A Sample number(s): 6144599-6144600 UNSPK: 6144599									
4-Amino-2,6-Dinitrotoluene	108	103	80-127	5	50				
2-Amino-4,6-Dinitrotoluene	110	107	80-137	4	50				
1,3-Dinitrobenzene	106	103	38-166	3	50				
2,4-Dinitrotoluene	106	102	80-131	4	50				
2,6-Dinitrotoluene	111	106	80-127	4	50				
HMX	100	97	63-128	3	50				
Nitrobenzene	104	100	80-125	4	50				
Nitroglycerin	106	103	80-120	3	50				

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitrotoluene	111	107	80-122	4	50				
3-Nitrotoluene	107	104	72-119	3	50				
4-Nitrotoluene	107	103	80-125	4	50				
PETN	111	106	80-121	4	50				
RDX	96	94	75-129	2	50				
Tetryl	111	107	55-174	4	50				
1,3,5-Trinitrobenzene	115	112	82-126	3	50				
2,4,6-Trinitrotoluene	107	101	82-130	6	50				
Batch number: 103300006A Sample number(s): 6144599-6144600 UNSPK: 6144599									
17a Formaldehyde by 8315A	98	101	80-120	3	50				
Batch number: 103240013A Sample number(s): 6144595 UNSPK: P137485									
6a Perchlorate EPA 6850	99	98	70-130	1	30				
Batch number: 103260008A Sample number(s): 6144589-6144591, 6144593-6144597, 6144599-6144600 UNSPK: 6144589									
PCB-1016	106	123	29-146	15	50				
PCB-1260	127	144	39-149	13	50				
Batch number: 103260038A Sample number(s): 6144599-6144600 UNSPK: 6144599									
EFH (C12-C14)	81	77	49-123	5	20				
EFH (C15-C20)	113	82	49-123	17	20				
EFH (C21-C30)	254 (2)	39 (2)	49-123	18	20				
EFH (C30 - C40)	247 (2)	143 (2)	49-123	11	20				
EFH (C8-C11)	69	68	49-123	2	20				
Batch number: 103270004A Sample number(s): 6144599-6144600 UNSPK: 6144599									
Ethanol	92	85	24-143	8	20				
Isopropanol	87	82	75-125	7	20				
Methanol	103	92	45-136	12	20				
Batch number: 103350011A Sample number(s): 6144599-6144600 UNSPK: 6144599									
Diethylene glycol	49*	79	59-109	47*	20				
Ethylene glycol	86	101	63-107	16	20				
Propylene glycol	79	94	63-107	17	20				
Batch number: 10323003 Sample number(s): 6144599-6144600 UNSPK: 6137958									
1,1-Dimethylhydrazine	13	14	10-116	9	30				
Hydrazine	8*	10*	11-102	22	30				
Methylhydrazine	10	11	10-92	9	30				
Batch number: 103221026002A Sample number(s): 6144589-6144597, 6144599-6144600 UNSPK: 6144589 BKG: 6144589									
Antimony	41*	41*	75-125	1	20	0.239	0.271	13 (1)	20
Arsenic	205*	167*	75-125	7	20	6.31	6.38	1	20
Beryllium	66*	47*	75-125	11	20	0.905	0.751	19	20
Cadmium	147*	133*	75-125	7	20	0.150	0.120	22* (1)	20
Chromium	178*	123	75-125	16	20	17.6	26.3	40*	20
Cobalt	106	99	75-125	4	20	11.5	9.68	17	20
Copper	139*	118	75-125	9	20	8.13	10.9	29*	20
Lead	119	100	75-125	4	20	8.00	9.17	14	20
Nickel	148*	144*	75-125	0	20	11.3	14.8	27*	20
Silver	136*	124	75-125	7	20	0.0441 J	0.0710 J	47* (1)	20
Thallium	94	84	75-125	5	20	0.390	0.302	26* (1)	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Vanadium	220*	153*	75-125	11	20	38.2	49.1	25*	20
Zinc	235 (2)	233 (2)	75-125	0	20	40.6	59.8	38*	20
Batch number: 103221026002B	Sample number(s): 6144589-6144597,6144599-6144600 UNSPK: 6144589 BKG: 6144589								
Selenium	131*	113	75-125	12	20	0.0907 J	0.0637 J	35* (1)	20
Batch number: 103221026002C	Sample number(s): 6144589-6144597,6144599-6144600 UNSPK: 6144589 BKG: 6144589								
Molybdenum	136*	115	75-125	14	20	0.512	0.423	19 (1)	20
Batch number: 103221026002D	Sample number(s): 6144589-6144597,6144599-6144600 UNSPK: 6144589 BKG: 6144589								
Barium	194 (2)	-18 (2)	75-125	18	20	111	161	37*	20
Batch number: 103225708004	Sample number(s): 6144589-6144597,6144599-6144600 UNSPK: 6144589 BKG: 6144589								
Aluminum	4629 (2)	3151 (2)	75-125	9	20	24,000	24,300	1	20
Boron	96	97	84-115	2	20	9.82	10.4	5 (1)	20
Calcium	227 (2)	466 (2)	75-125	19	20	3,530	3,520	0	20
Iron	3490 (2)	1719 (2)	75-125	7	20	23,000	24,800	8	20
Lithium	115*	113	82-114	1	20	21.7	21.6	0	20
Magnesium	561 (2)	292 (2)	75-125	10	20	4,580	4,700	3	20
Manganese	106 (2)	86 (2)	75-125	3	20	272	357	27*	20
Phosphorus	140*	131*	75-125	4	20	124	140	12	20
Potassium	242*	173*	75-125	17	20	2,020	1,960	3	20
Sodium	110	109	75-125	0	20	307	310	1 (1)	20
Strontium	104	104	75-115	0	20	33.5	33.2	1	20
Tin	90	92	80-110	2	20	2.30 J	2.28 J	1 (1)	20
Zirconium	101	103	75-125	2	20	4.88 J	6.16	23* (1)	20
Batch number: 103225711004	Sample number(s): 6144589-6144597,6144599-6144600 UNSPK: 6144589 BKG: 6144589								
Mercury	108	105	65-135	3	20	0.0080 J	0.0048 J	51* (1)	20
Batch number: 103265708002	Sample number(s): 6144589-6144597,6144599-6144600 UNSPK: 6144589 BKG: 6144589								
Titanium	-5 (2)	198 (2)	75-125	17	20	1,050	932	12	20
Batch number: 10330330201B	Sample number(s): 6144589-6144590,6144592-6144597 UNSPK: 6144589 BKG: 6144589								
7a Perchlorate EPA 314.0	102		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10335102201A	Sample number(s): 6144599-6144600 UNSPK: 6144599 BKG: 6144599								
21a Cyanide by 9012B	109		75-125			0.18 U	0.17 U	0 (1)	20
Batch number: 10336336201A	Sample number(s): 6144589-6144590,6144592-6144593 UNSPK: 6144589 BKG: 6144589								
11a Anions by 300.0 - Fluoride	82		80-120			4.5	5.0	11 (1)	20
Batch number: 10336336201B	Sample number(s): 6144594-6144597,6144599-6144600 UNSPK: 6144594 BKG: 6144594								
11a Anions by 300.0 - Fluoride	44*		80-120			5.7	5.8	2	20
11a Anions by 300.0 - Nitrate	97		80-120			1.2 J	1.7	37* (1)	20
Batch number: 10336336202A	Sample number(s): 6144599-6144600 UNSPK: 6144599 BKG: 6144599								
7a Perchlorate EPA 314.0	121*		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10340243201A	Sample number(s): 6144589-6144590,6144592-6144597,6144599-6144600 UNSPK: 6144589 BKG: 6144589								

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	J	DUP Conc	J	DUP RPD	(1)	Dup RPD Max
3a Cr VI by EPA 7199	93		75-125			0.32	J	0.48	J	42*	(1)	20
Batch number: 10322039403B	Sample number(s): 6144589,6144592-6144597,6144599-6144600 BKG: 6144589											
22a pH by 9045C						7.90		7.90		0		1
Batch number: 10322182103B	Sample number(s): 6144589,6144592-6144597,6144599-6144600 BKG: 6144589											
Oxidation Reduction Potential						470		471		0		6
Batch number: 10327162401B	Sample number(s): 6144589-6144597 BKG: 6144589											
28a Total Solids by 160.3						9.5		8.5		11		20
28a Total Solids by 160.3						9.5		8.5		11		20
28a Total Solids by 160.3						9.5		8.5		11		20
Batch number: 10342162401A	Sample number(s): 6144599-6144600 BKG: P149363											
28a Total Solids by 160.3						10		9.8		2		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: B103232AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6144589	95	92	98	90
6144594	97	98	96	91
6144597	97	99	96	92
6144599	97	98	98	91
Blank	96	93	97	90
LCS	95	100	99	94
LCSD	95	97	98	94
MS	94	94	100	95
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM

Batch number: E103231AA

Toluene-d8

6144598	101
Blank	101
LCS	101
MS	101
MSD	102

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM

Batch number: E103232AA

*- 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: 01/04/11 at 09:11 AM

Group Number: 1221905

Surrogate Quality Control

Toluene-d8

6144589 98
6144594 99
6144597 99
6144599 98
Blank 99
LCS 100
LCSD 100

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103263AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6144598	96	96	103	101
Blank	99	94	103	100
LCS	99	99	104	101
LCSD	97	98	104	100

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

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10323SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6144589	79	80	88	78	83	83
6144590	78	80	89	74	81	83
6144591	84	88	92	80	85	88
6144593	80	83	68	78	83	95
6144594	79	81	68	76	84	89
6144595	82	86	77	80	86	93
6144596	78	82	67	73	79	89
6144597	81	85	75	77	85	93
6144599	77	78	75	77	83	89
6144600	79	82	79	74	83	89
Blank	82	85	91	80	85	79
LCS	88	91	90	80	83	84
MS	78	80	89	74	81	83
MSD	84	88	92	80	85	88

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

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10324SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6144589	79	78	82
6144590	81	86	89
6144591	85	87	88
6144593	76	80	85
6144594	75	80	86
6144595	64	65	71
6144596	79	86	91
6144597	80	85	87
6144599	80	54	86

*- 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: 01/04/11 at 09:11 AM

Group Number: 1221905

Surrogate Quality Control

6144600	78	83	87
Blank	82	87	94
LCS	83	88	89
MS	81	86	89
MSD	85	87	88

Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10333SLD026
N-Nitrosodimethylamine-
d6

6144599	72
6144600	90
Blank	90
LCS	69
MS	72
MSD	66

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Gas
Batch number: 10326A34A
Trifluorotoluene-F

6144599	73
Blank	87
LCS	89
LCSD	88

Limits: 61-122

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103260008A
Tetrachloro-m-xylene Decachlorobiphenyl

6144589	99	103
6144590	107	119
6144591	126	136*
6144593	98	99
6144594	94	103
6144595	94	104
6144596	8*	10*
6144597	90	95
6144599	88	97
6144600	91	102
Blank	106	120
LCS	100	116
LCSD	108	122*
MS	107	119
MSD	126	136*

Limits:	53-139	45-120

Analysis Name: 20a Energetics by 8330A
Batch number: 103270005A

*- 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: 01/04/11 at 09:11 AM

Group Number: 1221905

Surrogate Quality Control

2-Nitro-m-xylene

6144599	110
6144600	118
Blank	115
LCS	114
LCSD	112
MS	126
MSD	114

Limits: 80-146

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103300006A
Butyraldehyde

6144599	102
6144600	101
Blank	101
LCS	101
MS	95
MSD	99

Limits: 64-126

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103260011A
n-Triacontane-d62

6144599	96
6144600	101
Blank	104
LCS	103
LCSD	103

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103260038A
Chlorobenzene Orthoterphenyl

6144599	77	78
6144600	79	84
Blank	74	76
LCS	81	85
MS	80	85
MSD	82	86

Limits: 37-125 47-145

Analysis Name: 25a Alcohols by 8015B
Batch number: 103270004A
Acetone

6144599	81
6144600	87
Blank	98

*- 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: 01/04/11 at 09:11 AM

Group Number: 1221905

Surrogate Quality Control

LCS 97
MS 82
MSD 82

Limits: 42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103350011A
Tetramethylene glycol

6144599 55
6144600 26*
Blank 116
LCS 99
MS 75
MSD 86

Limits: 50-119

*- 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 1221905 6144589-600

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 g/mo/d EPA 8015B	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	Other Instructions and Notes				
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																
SL-080-SA5C-SB-4.5	11.17.10	1000	soil	none	4 - Encore samplers	X	X														
SL-080-SA5C-SB-4.0-5.0 MS	11.17.10	1010	soil	none	6 - 16 oz jars			X		X	X	X	X	X	X		MS/MSD sample				
SL-080-SA5C-SB-7.5-8.5	11.17.10	1013	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X						
SL-079-SA5C-SB-4.5	11.17.10	1200	soil	none	4 - Encore samplers	X	X														
SL-079-SA5C-SB-4.0-5.0	11.17.10	1204	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X						
SL-079-SA5C-SB-8.5-9.5	11.17.10	1210	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X	X					
DUP08-SA5C-QC-111710	11.17.10	1015	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X						
SL-081-SA5C-SB-4.5	11.17.10	1350	soil	none	4 - Encore samplers	X	X														
SL-081-SA5C-SB-3.0-4.0	11.17.10	1356	soil	none	2 - 16 oz jars			X		X	X	X	X	X	X						
SL-072-SA5C-SB-4.5	11.17.10	1525	soil	none	5 - Encore samplers	X	X	X		N/A 11/23/10 Per PB.											
TB-111710	11.17.10	1600	water	HCl	3 - 40 ml VOA vials												Trip blank				
PB 11/17/2010																					
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time										Laboratory:					
		11.17.10 1630				11/18/10 900										Lancaster Laboratories, Inc.					
Received by: (Signature)		Date/Time		Airbill No.																	
				00732992																	
				Tracking Number 869514313264																	

6144589-600

CHAIN OF CUSTODY RECORD

[illegible]

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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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 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/19/2010

Group Number: 1222092

SDG: DE019

PO Number: 1203-004-007-AL

Release Number: Tracking #11667

State of Sample Origin: CA

Client Sample DescriptionSL-067-SA5C-SB-3.0-4.0 Soil
SL-054-SA5C-SB-3.0-4.0 Soil
SL-068-SA5C-SB-3.5-4.5 Soil
FB05-SA5C-111810 Water
EB09-SA5C-111810 Water
TB-111810 WaterLancaster Labs (LLI) #6145766
6145767
6145768
6145769
6145770
6145771

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

ELECTRONIC

CDM Federal Services Program

Attn: Todd Burgess

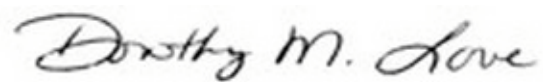
COPY TO

1 COPY TO

Data Package Group

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

Respectfully Submitted,



Dorothy M. Love
Group Leader

Sample Description: SL-067-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5C-SB-3.0-4.0

LLI Sample # SW 6145766
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 10:58

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06734 SDG#: DE019-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.7 U	7.7	9.2	1.07
06192	Benzene	71-43-2	0.11 U	0.11	4.6	1.07
06192	Bromobenzene	108-86-1	0.15 U	0.15	4.6	1.07
06192	Bromochloromethane	74-97-5	0.38 U	0.38	4.6	1.07
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.6	1.07
06192	Bromoform	75-25-2	0.46 U	0.46	4.6	1.07
06192	Bromomethane	74-83-9	0.29 U	0.29	4.6	1.07
06192	2-Butanone	78-93-3	1.4 U	1.4	9.2	1.07
06192	n-Butylbenzene	104-51-8	0.14 U	0.14	4.6	1.07
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.6	1.07
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.6	1.07
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.6	1.07
06192	Chlorobenzene	108-90-7	0.13 U	0.13	4.6	1.07
06192	Chloroethane	75-00-3	0.15 U	0.15	4.6	1.07
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34 U	0.34	4.6	1.07
06192	Chloroform	67-66-3	0.14 U	0.14	4.6	1.07
06192	Chloromethane	74-87-3	0.38 U	0.38	4.6	1.07
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.6	1.07
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.6	1.07
06192	Chlorotrifluoroethene	79-38-9	0.57 U	0.57	5.7	1.07
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.80 U	0.80	4.6	1.07
06192	Dibromochloromethane	124-48-1	0.23 U	0.23	4.6	1.07
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.6	1.07
06192	Dibromomethane	74-95-3	0.27 U	0.27	4.6	1.07
06192	1,2-Dichlorobenzene	95-50-1	0.10 U	0.10	4.6	1.07
06192	1,3-Dichlorobenzene	541-73-1	0.14 U	0.14	4.6	1.07
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.6	1.07
06192	Dichlorodifluoromethane	75-71-8	0.14 U	0.14	4.6	1.07
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.6	1.07
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.6	1.07
06192	1,1-Dichloroethene	75-35-4	0.45 U	0.45	4.6	1.07
06192	cis-1,2-Dichloroethene	156-59-2	0.22 U	0.22	4.6	1.07
06192	trans-1,2-Dichloroethene	156-60-5	0.14 U	0.14	4.6	1.07
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.6	1.07
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.6	1.07
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.6	1.07
06192	1,1-Dichloropropene	563-58-6	0.15 U	0.15	4.6	1.07
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.6	1.07
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.6	1.07
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.6	1.07
06192	Freon 113	76-13-1	0.13 U	0.13	4.6	1.07
06192	Freon 133a	75-88-7	0.57 U	0.57	5.7	1.07
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.6	1.07
06192	2-Hexanone	591-78-6	1.8 U	1.8	9.2	1.07
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.6	1.07
06192	p-Isopropyltoluene	99-87-6	0.13 U	0.13	4.6	1.07
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24 U	0.24	4.6	1.07
06192	4-Methyl-2-pentanone	108-10-1	0.45 U	0.45	9.2	1.07
06192	Methylene Chloride	75-09-2	0.27 U	0.27	4.6	1.07
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.6	1.07

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

Sample Description: SL-067-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5C-SB-3.0-4.0

LLI Sample # SW 6145766
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 10:58

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06734 SDG#: DE019-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.11 U	0.11	4.6	1.07
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13 U	0.13	4.6	1.07
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26 U	0.26	4.6	1.07
06192	Tetrachloroethene	127-18-4	0.23 U	0.23	4.6	1.07
06192	Toluene	108-88-3	0.09 U	0.09	4.6	1.07
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.6	1.07
06192	1,2,4-Trichlorobenzene	120-82-1	0.21 U	0.21	4.6	1.07
06192	1,1,1-Trichloroethane	71-55-6	0.23 U	0.23	4.6	1.07
06192	1,1,2-Trichloroethane	79-00-5	0.31 U	0.31	4.6	1.07
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.6	1.07
06192	Trichlorofluoromethane	75-69-4	0.33 U	0.33	4.6	1.07
06192	1,2,3-Trichloropropane	96-18-4	0.38 U	0.38	4.6	1.07
06192	1,2,4-Trimethylbenzene	95-63-6	0.46 U	0.46	4.6	1.07
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.6	1.07
06192	Vinyl Chloride	75-01-4	0.23 U	0.23	4.6	1.07
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.6	1.07
06192	o-Xylene	95-47-6	0.19 U	0.19	4.6	1.07
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	132	17.8	35.7	1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 38 ng/kg. The data reported here is from the initial extraction of the sample.						
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

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

Sample Description: SL-067-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5C-SB-3.0-4.0

LLI Sample # SW 6145766
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 10:58

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06734 SDG#: DE019-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	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
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	30	J 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	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	
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	0.90	J 0.71	1.8	1
10138	Benzo(a)pyrene	50-32-8	1.1	J 0.71	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	1.6	J 0.71	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.79	J 0.71	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.71	U 0.71	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.4	U 6.4	19	1
10138	Di-n-butylphthalate	84-74-2	6.4	U 6.4	19	1

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

Sample Description: SL-067-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5C-SB-3.0-4.0

LLI Sample # SW 6145766
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 10:58

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06734 SDG#: DE019-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Chrysene	218-01-9	1.3 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	Fluoranthene	206-44-0	1.3 J	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
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	1.3 J	0.71	1.8	1
GC Volatiles TPH GRO SW-846 8015B mod						
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.1	25.46
Explosives SW-846 8330A						
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	80 U	80	160	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	53 U	53	160	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320	1
10132	1,3-Dinitrobenzene	99-65-0	53 U	53	160	1
10132	2,4-Dinitrotoluene	121-14-2	53 U	53	160	1
10132	2,6-Dinitrotoluene	606-20-2	53 U	53	160	1
10132	HMX	2691-41-0	130 U	130	400	1
10132	Nitrobenzene	98-95-3	53 U	53	160	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1
10132	3-Nitrotoluene	99-08-1	130 U	130	160	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1
10132	PETN	78-11-5	1,100 U	1,100	3,200	1
10132	RDX	121-82-4	67 U	67	160	1
10132	Tetryl	479-45-8	82 U	82	160	1
10132	1,3,5-Trinitrobenzene	99-35-4	53 U	53	160	1
10132	2,4,6-Trinitrotoluene	118-96-7	53 U	53	160	1
HPLC Organics SW-846 8315A						
04173	17a Formaldehyde by 8315A	50-00-0	640 U	640	1,600	1
Pesticides/PCBs SW-846 8082						
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

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

Sample Description: SL-067-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5C-SB-3.0-4.0

LLI Sample # SW 6145766
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 10:58

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06734 SDG#: DE019-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs						
	SW-846 8082		ug/kg	ug/kg	ug/kg	
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	0.35 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
GC Extractable TPH						
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	0.74 J	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	
10501	Ethanol	64-17-5	110 U	110	530	1
10501	Isopropanol	67-63-0	110 U	110	530	1
10501	Methanol	67-56-1	170 J	110	530	1
GC Miscellaneous						
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	11 U	11	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
The samples were 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.						
Reporting limits were raised for diethylene glycol due to possible instrument interference. The diethylene glycol result for the reextraction is ND.						
Diethylene glycol in the calibration check standard injected after the sample was outside the 15%D acceptance criteria. This effect is attributed to the sample matrix and the data is reported.						
Terphenyls						
	SW-846 8015B		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
Misc. Organics						
	SW-846 8315A modified		ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.1 U	2.1	5.3	1
10346	Hydrazine	302-01-2	0.53 U	0.53	2.1	1
10346	Methylhydrazine	60-34-4	2.1 U	2.1	5.3	1
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	

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

Sample Description: SL-067-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5C-SB-3.0-4.0

LLI Sample # SW 6145766
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Submitted: 11/19/2010 08:55

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06734 SDG#: DE019-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	29,700	5.33	21.2	1
07914	Boron	7440-42-8	3.28 J	0.942	5.29	1
01650	Calcium	7440-70-2	4,700	6.49	21.2	1
01654	Iron	7439-89-6	35,600	24.9	106	5
01656	Lithium	7439-93-2	41.5	0.23	2.1	1
01657	Magnesium	7439-95-4	6,680	2.69	10.6	1
06958	Manganese	7439-96-5	652	0.0826	0.529	1
10145	Phosphorus	7723-14-0	118	0.593	10.6	1
01662	Potassium	7440-09-7	1,980	19.1	52.9	1
01667	Sodium	7440-23-5	263	39.5	106	1
07968	Strontium	7440-24-6	40.3	0.0657	0.529	1
06969	Tin	7440-31-5	3.03 J	1.06	10.6	1
06970	Titanium	7440-32-6	1,230	2.01	5.29	5
10146	Zirconium	7440-67-7	4.78 J	0.890	5.29	1
SW-846 6020						
	mg/kg		mg/kg	mg/kg		
06124	Antimony	7440-36-0	0.181 J	0.0629	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	7.59	0.0629	0.419	2
06126	Barium	7440-39-3	262	0.283	1.05	5
06127	Beryllium	7440-41-7	1.23	0.0168	0.105	2
06128	Cadmium	7440-43-9	0.0987 J	0.0377	0.105	2
06131	Chromium	7440-47-3	34.9	0.126	0.419	2
06132	Cobalt	7440-48-4	7.36	0.0210	0.105	2
06133	Copper	7440-50-8	12.7	0.0692	0.419	2
06135	Lead	7439-92-1	10.5	0.0109	0.210	2
06138	Molybdenum	7439-98-7	0.154	0.0524	0.105	2
06139	Nickel	7440-02-0	21.8	0.105	0.419	2
06141	Selenium	7782-49-2	0.183 J	0.0419	0.419	2
06142	Silver	7440-22-4	0.111	0.0126	0.105	2
06145	Thallium	7440-28-0	0.337	0.0315	0.105	2
06148	Vanadium	7440-62-2	53.8	0.0231	0.105	2
06149	Zinc	7440-66-6	75.8	0.587	3.15	2
SW-846 7471A						
	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	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.1	0.86	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.3	0.86	1.6	1
EPA 314.0						
	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		
05892	3a Cr VI by EPA 7199	18540-29-9	0.60 J	0.21	1.1	1

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

Sample Description: SL-067-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5C-SB-3.0-4.0

LLI Sample # SW 6145766
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 10:58

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Chantilly VA 20151

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06734 SDG#: DE019-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		SW-846 9012B	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	
01821	Oxidation Reduction Potential	n.a.	476	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.65	0.0100	0.0100	1
Wet Chemistry		EPA 160.3 modified	%	%	%	
11624	28a Total Solids 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-067-SA5C-SB-4.0.

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

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	B103232AA	11/19/2010 18:55	Kenneth L Boley Jr	1.07
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103282AA	11/24/2010 15:18	Jason M Long	24.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032323040	11/19/2010 15:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032323040	11/19/2010 16:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032323040	11/19/2010 16:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032323040	11/19/2010 15:51	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/21/2010 21:46	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/04/2010 05:42	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 13:05	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1

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

Sample Description: SL-067-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5C-SB-3.0-4.0

LLI Sample # SW 6145766
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 10:58

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Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06734 SDG#: DE019-01

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	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10326A34A	11/22/2010 14:00	Marie D John	25.46
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201032323040	11/19/2010 15:50	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103270005A	12/01/2010 14:39	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 20:10	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/02/2010 02:02	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103270005A	11/23/2010 13:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103260038A	12/02/2010 09:02	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103270004A	11/24/2010 15:04	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 20:28	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103260011A	12/01/2010 05:49	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103260038A	11/23/2010 08:15	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	103260011A	11/22/2010 18:15	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103270004A	11/24/2010 12:30	Marie D John	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10328002	11/25/2010 20:52	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 02:42	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 02:42	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 02:42	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 19:43	John P Hook	5
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 19:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 02:42	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 02:42	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 02:42	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 19:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 02:42	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 02:42	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 02:42	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 19:43	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 19:40	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	12/01/2010 13:52	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2

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

Sample Description: SL-067-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-067-SA5C-SB-3.0-4.0

LLI Sample # SW 6145766
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 10:58

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06734 SDG#: DE019-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:10	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:10	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:10	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 10:49	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201B	12/03/2010 15:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10336336201B	12/03/2010 15:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10336336202A	12/06/2010 17:22	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010 13:41	William L Hamaker Jr	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10335102201A	12/01/2010 20:45	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201B	12/02/2010 12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10336336202A	12/02/2010 13:45	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10335102201A	12/01/2010 17:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10323182101A	11/19/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10323039401A	11/19/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010 11:42	William C Schwebel	1

Sample Description: SL-054-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5C-SB-3.0-4.0

LLI Sample # SW 6145767
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 14:59

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

05434 SDG#: DE019-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.6 U	7.6	9.0	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	9.0	1
06192	n-Butylbenzene	104-51-8	0.14 U	0.14	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	0.34 U	0.34	4.5	1
06192	Chloroform	67-66-3	0.14 U	0.14	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	0.79 U	0.79	4.5	1
06192	Dibromochloromethane	124-48-1	0.23 U	0.23	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	0.14 U	0.14	4.5	1
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.5	1
06192	Dichlorodifluoromethane	75-71-8	0.14 U	0.14	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	0.14 U	0.14	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	9.0	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	0.24 U	0.24	4.5	1
06192	4-Methyl-2-pentanone	108-10-1	0.44 U	0.44	9.0	1
06192	Methylene Chloride	75-09-2	1.5 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

Sample Description: SL-054-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5C-SB-3.0-4.0

LLI Sample # SW 6145767
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 14:59

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

05434 SDG#: DE019-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	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	0.23 U	0.23	4.5	1
06192	Toluene	108-88-3	0.09 U	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	0.23 U	0.23	4.5	1
06192	1,1,2-Trichloroethane	79-00-5	0.31 U	0.31	4.5	1
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.5	1
06192	Trichlorofluoromethane	75-69-4	0.33 U	0.33	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	0.23 U	0.23	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	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.5 U	5.5	17	24.56
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	45.1	18.8	37.6	1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 37 ng/kg. The data reported here is from the initial extraction of the sample.						
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	560	1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U 190	560	1
04688	Benzyl alcohol	100-51-6	190	U 190	560	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190	1
04688	4-Chloroaniline	106-47-8	75	U 75	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1

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

Sample Description: SL-054-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5C-SB-3.0-4.0

LLI Sample # SW 6145767
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 14:59

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

05434 SDG#: DE019-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560	1
04688	2,4-Dinitrophenol	51-28-5	750	U 750	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38	U 38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19	U 19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	75	U 75	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	38	U 38	190	1
04688	4-Methylphenol	106-44-5	38	U 38	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	38	U 38	190	1
04688	4-Nitroaniline	100-01-6	75	U 75	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	560	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38	U 38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38	U 38	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75	U 0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38	U 0.38	1.9	1
10138	Anthracene	120-12-7	0.38	U 0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75	U 0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75	U 0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75	U 0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75	U 0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75	U 0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8	U 6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8	U 6.8	20	1
10138	Chrysene	218-01-9	0.38	U 0.38	1.9	1

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

Sample Description: SL-054-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5C-SB-3.0-4.0

LLI Sample # SW 6145767
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 14:59

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

05434 SDG#: DE019-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Dibenz(a,h)anthracene	53-70-3	0.75 U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8 U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8 U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.8 U	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
GC Volatiles TPH GRO SW-846 8015B mod						
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.1	24.37
Explosives SW-846 8330A						
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	85 U	85	170	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56 U	56	170	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	340	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	340	1
10132	1,3-Dinitrobenzene	99-65-0	56 U	56	170	1
10132	2,4-Dinitrotoluene	121-14-2	56 U	56	170	1
10132	2,6-Dinitrotoluene	606-20-2	56 U	56	170	1
10132	HMX	2691-41-0	140 U	140	420	1
10132	Nitrobenzene	98-95-3	56 U	56	170	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,400	1
10132	2-Nitrotoluene	88-72-2	110 U	110	170	1
10132	3-Nitrotoluene	99-08-1	140 U	140	170	1
10132	4-Nitrotoluene	99-99-0	110 U	110	170	1
10132	PETN	78-11-5	1,100 U	1,100	3,400	1
10132	RDX	121-82-4	70 U	70	170	1
10132	Tetryl	479-45-8	86 U	86	170	1
10132	1,3,5-Trinitrobenzene	99-35-4	56 U	56	170	1
10132	2,4,6-Trinitrotoluene	118-96-7	56 U	56	170	1
HPLC Organics SW-846 8315A						
04173	17a Formaldehyde by 8315A	50-00-0	680 U	680	1,700	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56 U	0.56	1.9	1

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

Sample Description: SL-054-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5C-SB-3.0-4.0

LLI Sample # SW 6145767
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 14:59

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

05434 SDG#: DE019-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs SW-846 8082 ug/kg ug/kg ug/kg						
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	0.37 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
GC Extractable TPH SW-846 8015B modified mg/kg mg/kg mg/kg						
10199	EFH (C12-C14)	n.a.	0.45 U	0.45	1.4	1
10199	EFH (C15-C20)	n.a.	0.45 U	0.45	1.4	1
10199	EFH (C21-C30)	n.a.	0.45 U	0.45	1.4	1
10199	EFH (C30 - C40)	n.a.	0.45 U	0.45	1.4	1
10199	EFH (C8-C11)	n.a.	0.45 U	0.45	1.4	1
GC Miscellaneous SW-846 8015B 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	270 J	110	560	1
GC Miscellaneous SW-846 8015B modified mg/kg mg/kg mg/kg						
08283	Diethylene glycol	111-46-6	7.9 U	7.9	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
The samples were 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.						
Reporting limits were raised for diethylene glycol due to possible instrument interference. The diethylene glycol result for the reextraction is ND.						
Diethylene glycol in the calibration check standard injected after the sample was outside the 15%D acceptance criteria. This effect is attributed to the sample matrix and the data is reported.						
Terphenyls SW-846 8015B 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
Misc. Organics SW-846 8315A modified ng/g ng/g ng/g						
10346	1,1-Dimethylhydrazine	57-14-7	2.3 U	2.3	5.6	1
10346	Hydrazine	302-01-2	0.56 U	0.56	2.3	1
10346	Methylhydrazine	60-34-4	2.3 U	2.3	5.6	1
Metals SW-846 6010B mg/kg mg/kg mg/kg						

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

Sample Description: SL-054-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5C-SB-3.0-4.0

LLI Sample # SW 6145767
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 14:59

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Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

05434 SDG#: DE019-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	28,400	5.61	22.3	1
07914	Boron	7440-42-8	2.51 J	0.993	5.58	1
01650	Calcium	7440-70-2	6,160	6.84	22.3	1
01654	Iron	7439-89-6	33,500	26.3	112	5
01656	Lithium	7439-93-2	55.1	0.25	2.2	1
01657	Magnesium	7439-95-4	8,180	2.84	11.2	1
06958	Manganese	7439-96-5	240	0.0871	0.558	1
10145	Phosphorus	7723-14-0	418	0.625	11.2	1
01662	Potassium	7440-09-7	2,190	20.1	55.8	1
01667	Sodium	7440-23-5	1,100	41.6	112	1
07968	Strontium	7440-24-6	68.0	0.0692	0.558	1
06969	Tin	7440-31-5	3.32 J	1.12	11.2	1
06970	Titanium	7440-32-6	1,470	2.12	5.58	5
10146	Zirconium	7440-67-7	4.74 J	0.938	5.58	1
SW-846 6020						
	mg/kg		mg/kg	mg/kg		
06124	Antimony	7440-36-0	0.288	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	6.20	0.0670	0.446	2
06126	Barium	7440-39-3	146	0.121	0.446	2
06127	Beryllium	7440-41-7	1.10	0.0179	0.112	2
06128	Cadmium	7440-43-9	0.0402 U	0.0402	0.112	2
06131	Chromium	7440-47-3	40.6	0.134	0.446	2
06132	Cobalt	7440-48-4	9.65	0.0223	0.112	2
06133	Copper	7440-50-8	18.8	0.0737	0.446	2
06135	Lead	7439-92-1	10.1	0.0116	0.223	2
06138	Molybdenum	7439-98-7	0.343	0.0558	0.112	2
06139	Nickel	7440-02-0	23.6	0.112	0.446	2
06141	Selenium	7782-49-2	0.0495 J	0.0446	0.446	2
06142	Silver	7440-22-4	0.114	0.0134	0.112	2
06145	Thallium	7440-28-0	0.484	0.0335	0.112	2
06148	Vanadium	7440-62-2	53.3	0.0246	0.112	2
06149	Zinc	7440-66-6	87.5	0.625	3.35	2
SW-846 7471A						
	mg/kg		mg/kg	mg/kg		
00159	Mercury	7439-97-6	0.0070 J	0.0031	0.107	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	10.9	0.90	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.4 J	0.90	1.7	1
EPA 314.0						
	ug/kg		ug/kg	ug/kg		
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8	1
SW-846 7199						
	mg/kg		mg/kg	mg/kg		
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	1

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

Sample Description: SL-054-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5C-SB-3.0-4.0

LLI Sample # SW 6145767
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 14:59

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

05434 SDG#: DE019-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		SW-846 9012B	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56	1
		ASTM D1498	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	
00394	22a pH by 9045C	n.a.	8.38	0.0100	0.0100	1
Wet Chemistry		EPA 160.3 modified	%	%	%	
11624	28a Total Solids by 160.3	n.a.	11.3	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
The volatile analysis was performed on soil from SL-054-SA5C-SB-4.0.

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

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	B103232AA	11/19/2010 19:18	Kenneth L Boley Jr	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103282AA	11/24/2010 15:38	Jason M Long	24.56
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032323040	11/19/2010 15:54	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032323040	11/19/2010 16:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032323040	11/19/2010 16:02	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032323040	11/19/2010 15:54	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/21/2010 22:03	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/04/2010 06:07	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 13:39	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1

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

Sample Description: SL-054-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5C-SB-3.0-4.0

LLI Sample # SW 6145767
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 14:59

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

05434 SDG#: DE019-02

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	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10326A34A	11/22/2010 14:36	Marie D John	24.37
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201032323040	11/19/2010 15:53	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103270005A	12/01/2010 15:21	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 20:20	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/02/2010 02:21	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103270005A	11/23/2010 13:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103260038A	12/02/2010 09:28	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103270004A	11/24/2010 15:18	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 20:44	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103260011A	12/01/2010 06:32	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103260038A	11/23/2010 08:15	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	103260011A	11/22/2010 18:15	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103270004A	11/24/2010 12:30	Marie D John	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10328002	11/25/2010 22:13	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 02:53	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 02:53	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 02:53	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 19:50	John P Hook	5
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 19:46	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 02:53	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 02:53	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 02:53	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 19:46	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 02:53	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 02:53	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 02:53	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 19:50	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 19:46	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 14:13	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2

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

Sample Description: SL-054-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-054-SA5C-SB-3.0-4.0

LLI Sample # SW 6145767
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 14:59

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

05434 SDG#: DE019-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:13	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:13	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:13	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 10:51	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201B	12/03/2010 15:23	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10336336201B	12/03/2010 15:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10336336202A	12/06/2010 18:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010 13:55	William L Hamaker Jr	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10335102201A	12/01/2010 20:49	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201B	12/02/2010 12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10336336202A	12/02/2010 13:45	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10335102201A	12/01/2010 17:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10323182101A	11/19/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10323039401A	11/19/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010 11:42	William C Schwebel	1

Sample Description: SL-068-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5C-SB-3.5-4.5

LLI Sample # SW 6145768
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 13:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06834 SDG#: DE019-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	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	0.12 U	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	0.24 U	0.24	4.0	0.93
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0	0.93

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

Sample Description: SL-068-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5C-SB-3.5-4.5

LLI Sample # SW 6145768
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 13:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06834 SDG#: DE019-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.10 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	5.4 U	5.4	16	24.95
GC/MS Semivolatiles EPA 1625C						
11622	N-Nitrosodimethylamine	62-75-9	102	18.0	36.0	1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 21 ng/kg. The data reported here is from the initial extraction of the sample.						
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

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

Sample Description: SL-068-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5C-SB-3.5-4.5

LLI Sample # SW 6145768
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 13:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06834 SDG#: DE019-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	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	bis(2-Ethylhexyl)phthalate	117-81-7	28	J 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	
10138	Acenaphthene	83-32-9	0.72	U 0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36	U 0.36	1.8	1
10138	Anthracene	120-12-7	0.36	U 0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U 0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U 0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U 0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72	U 0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72	U 0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5	U 6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5	U 6.5	19	1

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

Sample Description: SL-068-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5C-SB-3.5-4.5

LLI Sample # SW 6145768
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 13:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06834 SDG#: DE019-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Chrysene	218-01-9	0.36 U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72 U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5 U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5 U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72 U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72 U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72 U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72 U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72 U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72 U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72 U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72 U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72 U	0.72	1.8	1
GC Volatiles TPH GRO SW-846 8015B mod						
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.0	23.23
Explosives SW-846 8330A						
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	81 U	81	160	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54 U	54	160	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320	1
10132	1,3-Dinitrobenzene	99-65-0	54 U	54	160	1
10132	2,4-Dinitrotoluene	121-14-2	54 U	54	160	1
10132	2,6-Dinitrotoluene	606-20-2	54 U	54	160	1
10132	HMX	2691-41-0	140 U	140	410	1
10132	Nitrobenzene	98-95-3	54 U	54	160	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1
10132	3-Nitrotoluene	99-08-1	140 U	140	160	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1
10132	PETN	78-11-5	1,100 U	1,100	3,200	1
10132	RDX	121-82-4	68 U	68	160	1
10132	Tetryl	479-45-8	83 U	83	160	1
10132	1,3,5-Trinitrobenzene	99-35-4	54 U	54	160	1
10132	2,4,6-Trinitrotoluene	118-96-7	54 U	54	160	1
HPLC Organics SW-846 8315A						
04173	17a Formaldehyde by 8315A	50-00-0	650 U	650	1,600	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.8	1
10225	PCB-1221	11104-28-2	0.54 U	0.54	1.8	1

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

Sample Description: SL-068-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5C-SB-3.5-4.5

LLI Sample # SW 6145768
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 13:30

CDM Federal Programs Corp.
14420 Albemarle Point Place
Suite 210
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Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06834 SDG#: DE019-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs						
	SW-846 8082		ug/kg	ug/kg	ug/kg	
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	0.36 U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.36 U	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
GC Extractable TPH						
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	0.77 J	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	
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	190 J	110	540	1
GC Miscellaneous						
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4 U	5.4	14	1
08283	Ethylene glycol	107-21-1	5.4 U	5.4	14	1
08283	Propylene glycol	57-55-6	5.4 U	5.4	14	1
The samples were 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. The surrogate data is outside the QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to the re-extraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts. Diethylene glycol in the calibration check standard injected after the sample was outside the 15%D acceptance criteria. This effect is attributed to the sample matrix and the data is reported.						
Terphenyls						
	SW-846 8015B		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
Misc. Organics						
	SW-846 8315A modified		ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.2 U	2.2	5.4	1
10346	Hydrazine	302-01-2	0.54 U	0.54	2.2	1
10346	Methylhydrazine	60-34-4	2.2 U	2.2	5.4	1

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

Sample Description: SL-068-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5C-SB-3.5-4.5

LLI Sample # SW 6145768
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 13:30

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14420 Albemarle Point Place
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Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06834 SDG#: DE019-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	25,600	5.38	21.4	1
07914	Boron	7440-42-8	1.95 J	0.953	5.35	1
01650	Calcium	7440-70-2	3,460	6.56	21.4	1
01654	Iron	7439-89-6	26,600	5.04	21.4	1
01656	Lithium	7439-93-2	28.1	0.24	2.1	1
01657	Magnesium	7439-95-4	5,440	2.72	10.7	1
06958	Manganese	7439-96-5	305	0.0835	0.535	1
10145	Phosphorus	7723-14-0	127	0.599	10.7	1
01662	Potassium	7440-09-7	1,950	19.3	53.5	1
01667	Sodium	7440-23-5	122	39.9	107	1
07968	Strontium	7440-24-6	32.7	0.0664	0.535	1
06969	Tin	7440-31-5	2.48 J	1.07	10.7	1
06970	Titanium	7440-32-6	1,260	2.03	5.35	5
10146	Zirconium	7440-67-7	4.81 J	0.899	5.35	1
SW-846 6020						
	mg/kg		mg/kg	mg/kg		
06124	Antimony	7440-36-0	0.258	0.0636	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	8.66	0.0636	0.424	2
06126	Barium	7440-39-3	163	0.114	0.424	2
06127	Beryllium	7440-41-7	0.948	0.0170	0.106	2
06128	Cadmium	7440-43-9	0.155	0.0382	0.106	2
06131	Chromium	7440-47-3	35.7	0.127	0.424	2
06132	Cobalt	7440-48-4	12.1	0.0212	0.106	2
06133	Copper	7440-50-8	12.8	0.0700	0.424	2
06135	Lead	7439-92-1	10.3	0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.424	0.0530	0.106	2
06139	Nickel	7440-02-0	20.8	0.106	0.424	2
06141	Selenium	7782-49-2	0.132 J	0.0424	0.424	2
06142	Silver	7440-22-4	0.0395 J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.370	0.0318	0.106	2
06148	Vanadium	7440-62-2	63.8	0.0233	0.106	2
06149	Zinc	7440-66-6	73.2	0.594	3.18	2
SW-846 7471A						
	mg/kg		mg/kg	mg/kg		
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.102	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.4	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		
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 U	9.7	32.4	1
SW-846 7199						
	mg/kg		mg/kg	mg/kg		
05892	3a Cr VI by EPA 7199	18540-29-9	0.27 J	0.22	1.1	1

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

Sample Description: SL-068-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5C-SB-3.5-4.5

LLI Sample # SW 6145768
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 13:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06834 SDG#: DE019-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		SW-846 9012B	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.54	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	554	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	5.85	0.0100	0.0100	1
Wet Chemistry		EPA 160.3 modified	%	%	%	
11624	28a Total Solids by 160.3	n.a.	7.5	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-068-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	B103232AA	11/19/2010 19:40	Kenneth L Boley Jr	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103282AA	11/24/2010 15:58	Jason M Long	24.95
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032323040	11/19/2010 15:58	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032323040	11/19/2010 16:02	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032323040	11/19/2010 16:03	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032323040	11/19/2010 15:59	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/21/2010 22:20	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10323SLC026	12/04/2010 06:33	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10324SLD026	12/03/2010 14:12	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1

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

Sample Description: SL-068-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5C-SB-3.5-4.5

LLI Sample # SW 6145768
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 13:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06834 SDG#: DE019-03

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	10324SLD026	11/22/2010 07:25	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10323SLC026	11/20/2010 12:15	Sally L Appleyard	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10326A34A	11/22/2010 15:13	Marie D John	23.23
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201032323040	11/19/2010 15:58	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103270005A	12/01/2010 17:28	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 20:29	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/02/2010 02:39	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103270005A	11/23/2010 13:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103260038A	12/02/2010 09:53	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103270004A	11/24/2010 15:48	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 21:00	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103260011A	12/01/2010 07:16	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103260038A	11/23/2010 08:15	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	103260011A	11/22/2010 18:15	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103270004A	11/24/2010 12:30	Marie D John	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10328002	11/25/2010 22:33	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 02:57	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 02:57	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 02:57	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 02:57	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 20:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 02:57	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 02:57	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 02:57	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 20:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 02:57	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 02:57	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 02:57	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 19:53	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 20:03	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 14:23	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2

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

Sample Description: SL-068-SA5C-SB-3.5-4.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-068-SA5C-SB-3.5-4.5

LLI Sample # SW 6145768
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 13:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

06834 SDG#: DE019-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:23	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:23	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:23	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 10:52	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10336336201B	12/03/2010 15:38	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10336336201B	12/03/2010 15:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10336336202A	12/06/2010 18:34	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010 14:09	William L Hamaker Jr	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10335102201A	12/01/2010 20:50	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10336336201B	12/02/2010 12:45	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10336336202A	12/02/2010 13:45	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10335102201A	12/01/2010 17:30	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10323182101A	11/19/2010 13:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10323039401A	11/19/2010 13:30	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010 11:42	William C Schwebel	1

Sample Description: FB05-SA5C-111810 Water
SSFL Area IV Collocated Soil Sampling
FB05-SA5C-111810

LLI Sample # WW 6145769
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 08:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

FB-05 SDG#: DE019-04FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C						
10962	N-Nitrosodimethylamine	62-75-9	4.45	0.531	1.06	1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.94 ng/L. The blank value was not subtracted from the analytical result.						
GC Volatiles TPH GRO SW-8015B						
08229	TPH-GRO S.CA water C5-C12	n.a.	20 U	20	50	1
Explosives SW-846 8330A						
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30 U	0.30	0.60	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20 U	0.20	0.60	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20 U	0.20	0.60	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20 U	0.20	0.60	1
10131	1,3-Dinitrobenzene	99-65-0	0.20 U	0.20	0.60	1
10131	2,4-Dinitrotoluene	121-14-2	0.20 U	0.20	0.60	1
10131	2,6-Dinitrotoluene	606-20-2	0.20 U	0.20	0.60	1
10131	HMX	2691-41-0	0.65 U	0.65	2.0	1
10131	Nitrobenzene	98-95-3	0.20 U	0.20	0.60	1
10131	Nitroglycerin	55-63-0	5.2 U	5.2	15	1
10131	2-Nitrotoluene	88-72-2	0.20 U	0.20	0.60	1
10131	3-Nitrotoluene	99-08-1	0.40 U	0.40	1.2	1
10131	4-Nitrotoluene	99-99-0	0.60 U	0.60	1.2	1
10131	PETN	78-11-5	6.0 U	6.0	18	1
10131	RDX	121-82-4	0.87 U	0.20	0.60	1
10131	Tetryl	479-45-8	0.40 U	0.40	0.60	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20 U	0.20	0.60	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20 U	0.20	0.60	1
HPLC Organics SW-846 8315A						
04144	17b Formaldehyde by 8315A	50-00-0	11 J	10	50	1
GC Extractable TPH SW-846 8015B modified						
10365	EFH (C12-C14)	n.a.	0.11 U	0.11	0.64	1
10365	EFH (C15-C20)	n.a.	0.11 U	0.11	0.64	1
10365	EFH (C21-C30)	n.a.	0.11 U	0.11	0.64	1
10365	EFH (C30 - C40)	n.a.	0.11 U	0.11	0.64	1
10365	EFH (C8-C11)	n.a.	0.11 U	0.11	0.64	1
GC Miscellaneous SW-846 8015B						
06624	Ethanol	64-17-5	200 U	200	1,000	1
06624	Isopropanol	67-63-0	200 U	200	1,000	1
06624	Methanol	67-56-1	200 U	200	1,000	1
GC Miscellaneous SW-846 8015B modified						
08278	Diethylene glycol	111-46-6	10 U	10	100	1
08278	Ethylene glycol	107-21-1	10 U	10	100	1

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

Sample Description: FB05-SA5C-111810 Water
SSFL Area IV Collocated Soil Sampling
FB05-SA5C-111810

LLI Sample # WW 6145769
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 08:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

FB-05 SDG#: DE019-04FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Miscellaneous						
	SW-846 8015B modified		mg/l	mg/l	mg/l	
08278	Propylene glycol	57-55-6	10 U	10	100	1
The samples were 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.						
Terphenyls						
	SW-846 8015B		mg/l	mg/l	mg/l	
10319	m-Terphenyl	92-06-8	0.086 U	0.086	0.27	1
10319	o-Terphenyl	84-15-1	0.086 U	0.086	0.27	1
10319	p-Terphenyl	92-94-4	0.086 U	0.086	0.27	1
Misc. Organics						
	SW-846 8315A modified		ug/l	ug/l	ug/l	
10342	1,1-Dimethylhydrazine	57-14-7	0.25 U	0.25	0.50	1
10342	Hydrazine	302-01-2	0.050 U	0.050	0.10	1
10342	Methylhydrazine	60-34-4	0.25 U	0.25	0.50	1
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10	1
	SW-846 9012B		mg/l	mg/l	mg/l	
08255	21b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010	1
	SW-846 9040B		Std. Units	Std. Units	Std. Units	
00200	22b pH by 9040B	n.a.	5.4	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
10962	19b NDMA by 1625C	EPA 1625C	1	10328WAE026	12/21/2010 18:37	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	10328WAE026	11/25/2010 00:55	David V Hershey Jr	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10327B07A	11/29/2010 12:53	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10327B07A	11/29/2010 12:53	Tyler O Griffin	1
10131	20b Energetics by 8330A	SW-846 8330A	1	103270023A	12/01/2010 22:25	James H Place	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	103240002A	11/22/2010 16:58	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	103240002A	11/21/2010 12:50	Denise L Trimby	1
11122	Energetics Extraction	SW-846 8330	1	103270023A	11/24/2010 15:15	Kelli M Barto	1

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

Sample Description: FB05-SA5C-111810 Water
SSFL Area IV Collocated Soil Sampling
FB05-SA5C-111810

LLI Sample # WW 6145769
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 08:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

FB-05 SDG#: DE019-04FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103430020A	12/02/2010 05:13	Heather E Williams	1
06624	25b Alcohols by 8015B	SW-846 8015B	1	103260013A	11/22/2010 17:46	Dustin A Underkoffler	1
08278	27b Glycols by 8015B	SW-846 8015B modified	1	103330002A	11/30/2010 17:07	Robert Brown	1
10319	26b Terphenyls by 8015B	SW-846 8015B	1	103260007A	12/01/2010 11:37	Heather E Williams	1
11203	Boeing EFH Waters Extraction	SW-846 3510C	1	103430020A	11/23/2010 16:45	JoElla L Rice	1
11202	EFH Extraction - Waters	SW-846 3510C	1	103270008A	11/23/2010 16:45	JoElla L Rice	1
10304	Terphenyls water prep	SW-846 3510C	1	103260007A	11/22/2010 16:40	JoElla L Rice	1
10342	18b Hydrazine by 8315A	SW-846 8315A modified	1	10327001	11/24/2010 23:55	Meng Yu	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	10323196601B	11/19/2010 22:07	Ashley M Adams	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	10334117102A	11/30/2010 20:39	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	10334117102A	11/30/2010 10:20	Nancy J Shoop	1
00200	22b pH by 9040B	SW-846 9040B	1	10323020001A	11/19/2010 21:45	Luz M Groff	1

Sample Description: EB09-SA5C-111810 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5C-111810

LLI Sample # WW 6145770
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 12:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

EB-09 SDG#: DE019-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C						
10962	N-Nitrosodimethylamine	62-75-9	2.99	0.492	0.984	1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.94 ng/l. The blank value was not subtracted from the analytical result.						
GC Volatiles TPH GRO SW-8015B						
08229	TPH-GRO S.CA water C5-C12	n.a.	20 U	20	50	1
Explosives SW-846 8330A						
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30 U	0.30	0.60	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20 U	0.20	0.60	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20 U	0.20	0.60	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20 U	0.20	0.60	1
10131	1,3-Dinitrobenzene	99-65-0	0.20 U	0.20	0.60	1
10131	2,4-Dinitrotoluene	121-14-2	0.20 U	0.20	0.60	1
10131	2,6-Dinitrotoluene	606-20-2	0.20 U	0.20	0.60	1
10131	HMX	2691-41-0	2.5 U	2.5	2.5	1
10131	Nitrobenzene	98-95-3	0.20 U	0.20	0.60	1
10131	Nitroglycerin	55-63-0	5.2 U	5.2	15	1
10131	2-Nitrotoluene	88-72-2	0.20 U	0.20	0.60	1
10131	3-Nitrotoluene	99-08-1	0.40 U	0.40	1.2	1
10131	4-Nitrotoluene	99-99-0	0.60 U	0.60	1.2	1
10131	PETN	78-11-5	6.0 U	6.0	18	1
10131	RDX	121-82-4	0.20 U	0.20	0.60	1
10131	Tetryl	479-45-8	0.40 U	0.40	0.60	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20 U	0.20	0.60	1
10131	2,4,6-Trinitrotoluene	118-96-7	3.2 U	3.2	3.2	1
Due to interfering peaks on the chromatogram, the values reported for HMX represent the lowest reporting limits attainable.						
HPLC Organics SW-846 8315A						
04144	17b Formaldehyde by 8315A	50-00-0	10 U	10	50	1
GC Extractable TPH SW-846 8015B modified						
10365	EFH (C12-C14)	n.a.	0.11 U	0.11	0.63	1
10365	EFH (C15-C20)	n.a.	0.11 U	0.11	0.63	1
10365	EFH (C21-C30)	n.a.	0.11 U	0.11	0.63	1
10365	EFH (C30 - C40)	n.a.	0.11 U	0.11	0.63	1
10365	EFH (C8-C11)	n.a.	0.11 U	0.11	0.63	1
GC Miscellaneous SW-846 8015B						
06624	Ethanol	64-17-5	200 U	200	1,000	1
06624	Isopropanol	67-63-0	200 U	200	1,000	1
06624	Methanol	67-56-1	200 U	200	1,000	1
GC Miscellaneous SW-846 8015B modified						
08278	Diethylene glycol	111-46-6	10 U	10	100	1

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

Sample Description: EB09-SA5C-111810 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5C-111810

LLI Sample # WW 6145770
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 12:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

EB-09 SDG#: DE019-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Miscellaneous		SW-846 8015B modified	mg/l	mg/l	mg/l	
08278	Ethylene glycol	107-21-1	10 U	10	100	1
08278	Propylene glycol	57-55-6	10 U	10	100	1
The samples were 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.						
Terphenyls		SW-846 8015B	mg/l	mg/l	mg/l	
10319	m-Terphenyl	92-06-8	0.084 U	0.084	0.26	1
10319	o-Terphenyl	84-15-1	0.084 U	0.084	0.26	1
10319	p-Terphenyl	92-94-4	0.084 U	0.084	0.26	1
Misc. Organics		SW-846 8315A modified	ug/l	ug/l	ug/l	
10342	1,1-Dimethylhydrazine	57-14-7	0.25 U	0.25	0.50	1
10342	Hydrazine	302-01-2	0.050 U	0.050	0.10	1
10342	Methylhydrazine	60-34-4	0.25 U	0.25	0.50	1
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10	1
		SW-846 9012B	mg/l	mg/l	mg/l	
08255	21b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010	1
		SW-846 9040B	Std. Units	Std. Units	Std. Units	
00200	22b pH by 9040B	n.a.	5.4	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
10962	19b NDMA by 1625C	EPA 1625C	1	10328WAE026	12/21/2010 18:54	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	10328WAE026	11/25/2010 00:55	David V Hershey Jr	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10327B07A	11/29/2010 13:19	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10327B07A	11/29/2010 13:19	Tyler O Griffin	1
10131	20b Energetics by 8330A	SW-846 8330A	1	103270023A	12/01/2010 23:07	James H Place	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	103240002A	11/22/2010 17:07	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	103240002A	11/21/2010 12:50	Denise L Trimby	1

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

Sample Description: EB09-SA5C-111810 Water
SSFL Area IV Collocated Soil Sampling
EB09-SA5C-111810

LLI Sample # WW 6145770
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 12:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

EB-09 SDG#: DE019-05EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11122	Energetics Extraction	SW-846 8330	1	103270023A	11/24/2010 15:15	Kelli M Barto	1
10365	9b TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103430020A	12/02/2010 05:38	Heather E Williams	1
06624	25b Alcohols by 8015B	SW-846 8015B	1	103260013A	11/22/2010 18:01	Dustin A Underkoffler	1
08278	27b Glycols by 8015B	SW-846 8015B modified	1	103330002A	11/30/2010 17:23	Robert Brown	1
10319	26b Terphenyls by 8015B	SW-846 8015B	1	103260007A	12/01/2010 12:20	Heather E Williams	1
11203	Boeing EFH Waters Extraction	SW-846 3510C	1	103430020A	11/23/2010 16:45	JoElla L Rice	1
11202	EFH Extraction - Waters	SW-846 3510C	1	103270008A	11/23/2010 16:45	JoElla L Rice	1
10304	Terphenyls water prep	SW-846 3510C	1	103260007A	11/22/2010 16:40	JoElla L Rice	1
10342	18b Hydrazine by 8315A	SW-846 8315A modified	1	10327001	11/25/2010 01:36	Meng Yu	1
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	10323196601B	11/19/2010 22:25	Ashley M Adams	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	10334117102A	11/30/2010 20:40	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	10334117102A	11/30/2010 10:20	Nancy J Shoop	1
00200	22b pH by 9040B	SW-846 9040B	1	10323020001A	11/19/2010 21:45	Luz M Groff	1

Sample Description: TB-111810 Water
SSFL Area IV Collocated Soil Sampling
TB-111810

LLI Sample # WW 6145771
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 16:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

TB118 SDG#: DE019-06TB*

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

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

Sample Description: TB-111810 Water
SSFL Area IV Collocated Soil Sampling
TB-111810

LLI Sample # WW 6145771
LLI Group # 1222092
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/18/2010 16:30

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

Submitted: 11/19/2010 08:55

Reported: 01/04/2011 09:29

TB118 SDG#: DE019-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
GC	Volatiles	TPH GRO SW-8015B	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	Y103263AA	11/22/2010 07:24	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103281AA	11/24/2010 11:23	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y103263AA	11/22/2010 07:24	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E103281AA	11/24/2010 11:23	Jason M Long	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10327B07A	11/29/2010 13:44	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10327B07A	11/29/2010 13:44	Tyler O Griffin	1

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

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: B103232AA Sample number(s): 6145766-6145768									
Acetone	6.7 U	6.7	8.0	ug/kg	179	179	32-209	0	30
Benzene	0.10 U	0.10	4.0	ug/kg	101	99	80-120	2	30
Bromobenzene	0.13 U	0.13	4.0	ug/kg	97	95	79-120	2	30
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	130*	127*	79-124	2	30
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	96	95	78-120	1	30
Bromoform	0.40 U	0.40	4.0	ug/kg	86	85	70-120	1	30
Bromomethane	0.25 U	0.25	4.0	ug/kg	90	89	32-162	2	30
2-Butanone	1.2 U	1.2	8.0	ug/kg	120	120	46-153	0	30
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	108	104	72-120	4	30
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	109	106	75-120	3	30
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	96	95	75-120	2	30
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	90	88	69-122	2	30
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	98	96	80-120	2	30
Chloroethane	0.13 U	0.13	4.0	ug/kg	91	88	37-154	3	30
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	96	94	43-146	2	30
Chloroform	0.12 U	0.12	4.0	ug/kg	101	98	80-120	3	30
Chloromethane	0.33 U	0.33	4.0	ug/kg	88	86	54-132	3	30
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	101	99	78-120	2	30
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	102	99	79-120	3	30
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	108	102	22-131	6	30
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	98	99	58-120	1	30
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	93	92	77-120	1	30
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	96	96	80-120	0	30
Dibromomethane	0.24 U	0.24	4.0	ug/kg	99	97	80-120	2	30
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	98	95	79-120	3	30
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	98	95	78-120	2	30
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	99	95	79-120	3	30
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	68	65	20-120	3	30
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	100	99	80-120	1	30
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	99	97	71-129	2	30
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	98	95	73-123	3	30
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	97	95	80-120	2	30
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	86	90	79-120	4	30
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	101	99	80-120	1	30
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	101	102	80-120	0	30
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	79	79	72-123	1	30
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	98	97	77-120	2	30
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	91	89	80-120	2	30
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	88	86	77-120	2	30
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	101	99	80-120	2	30
Freon 113	0.11 U	0.11	4.0	ug/kg	102	97	61-126	5	30
Freon 133a	0.50 U	0.50	5.0	ug/kg	89	85	78-120	5	30
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	97	95	57-120	3	30
2-Hexanone	1.6 U	1.6	8.0	ug/kg	106	107	45-155	1	30
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	98	95	76-120	3	30
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	106	101	75-120	4	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: 01/04/11 at 09:29 AM

Group Number: 1222092

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCS D Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	88	92	74-121	4	30
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	100	98	61-134	2	30
Methylene Chloride	0.24 U	0.24	4.0	ug/kg	96	94	76-124	2	30
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	113	110	77-120	3	30
Styrene	0.10 U	0.10	4.0	ug/kg	95	93	76-120	2	30
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	92	90	80-120	2	30
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	108	105	71-123	2	30
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	91	90	77-120	1	30
Toluene	0.08 U	0.08	4.0	ug/kg	99	97	80-120	2	30
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	94	92	64-120	2	30
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	92	89	68-120	3	30
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	92	90	71-125	2	30
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	97	96	80-120	2	30
Trichloroethene	0.15 U	0.15	4.0	ug/kg	97	94	80-120	4	30
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	96	92	58-133	4	30
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	103	101	71-123	2	30
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	106	104	79-120	2	30
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	105	102	78-120	2	30
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	84	82	53-120	3	30
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	97	94	80-120	2	30
o-Xylene	0.17 U	0.17	4.0	ug/kg	94	92	80-120	2	30
Batch number: E103281AA	Sample number(s): 6145771								
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	91	100	60-132	9	30
Batch number: E103282AA	Sample number(s): 6145766-6145768								
1,4-Dioxane	5.0 U	5.0	15	ug/kg	98	97	70-130	1	30
Batch number: Y103263AA	Sample number(s): 6145771								
Acetone	6 U	6.	20	ug/l	192	193	49-234	1	30
Benzene	0.5 U	0.5	5	ug/l	95	94	79-120	2	30
Bromobenzene	1 U	1.	5	ug/l	105	105	80-120	0	30
Bromochloromethane	1 U	1.	5	ug/l	93	90	80-120	3	30
Bromodichloromethane	1 U	1.	5	ug/l	91	89	80-120	2	30
Bromoform	1 U	1.	5	ug/l	90	99	61-120	10	30
Bromomethane	1 U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3 U	3.	10	ug/l	119	118	66-151	1	30
n-Butylbenzene	1 U	1.	5	ug/l	100	99	74-120	1	30
sec-Butylbenzene	1 U	1.	5	ug/l	107	107	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	100	99	80-120	2	30
Carbon Tetrachloride	1 U	1.	5	ug/l	93	90	75-123	3	30
Chlorobenzene	0.8 U	0.8	5	ug/l	96	94	80-120	2	30
Chloroethane	1 U	1.	5	ug/l	95	90	49-129	6	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	107	107	56-129	1	30
Chloroform	0.8 U	0.8	5	ug/l	96	94	77-122	2	30
Chloromethane	1 U	1.	5	ug/l	91	87	60-129	4	30
2-Chlorotoluene	1 U	1.	5	ug/l	107	103	80-120	4	30
4-Chlorotoluene	1 U	1.	5	ug/l	100	97	80-120	3	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	119	112	38-136	6	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	112	108	66-120	3	30
Dibromochloromethane	1 U	1.	5	ug/l	94	92	80-120	2	30
1,2-Dibromoethane	1 U	1.	5	ug/l	101	99	80-120	2	30
Dibromomethane	1 U	1.	5	ug/l	96	92	80-120	4	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	97	95	80-120	2	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	70	68	47-120	2	30
1,1-Dichloroethane	1 U	1.	5	ug/l	98	96	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1 U	1.	5	ug/l	93	91	70-130	2	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	107	106	74-123	1	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	97	95	80-120	2	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	97	94	80-120	3	30
1,2-Dichloropropane	1 U	1.	5	ug/l	94	92	78-120	2	30
1,3-Dichloropropane	1 U	1.	5	ug/l	99	98	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	86	84	77-124	2	30
1,1-Dichloropropene	1 U	1.	5	ug/l	95	94	80-120	1	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	87	85	80-120	2	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	90	89	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	98	96	79-120	2	30
Freon 113	2 U	2.	10	ug/l	113	114	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	101	93	77-120	8	30
Hexachlorobutadiene	2 U	2.	5	ug/l	98	95	58-120	3	30
2-Hexanone	3 U	3.	10	ug/l	116	114	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	97	95	77-120	2	30
p-Isopropyltoluene	1 U	1.	5	ug/l	106	103	80-120	3	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	96	94	76-120	1	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	98	93	70-121	5	30
Methylene Chloride	2 U	2.	5	ug/l	86	82	80-120	5	30
n-Propylbenzene	1 U	1.	5	ug/l	110	108	80-120	2	30
Styrene	1 U	1.	5	ug/l	98	107	80-120	8	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	97	94	80-120	3	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	110	109	71-120	1	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	96	94	80-121	2	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	100	99	65-120	1	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	99	98	67-120	1	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	95	94	75-127	1	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	99	97	80-120	3	30
Trichloroethene	1 U	1.	5	ug/l	94	91	80-120	4	30
Trichlorofluoromethane	2 U	2.	5	ug/l	94	92	64-129	1	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	111	109	80-120	2	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	106	106	74-120	0	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	105	102	75-120	3	30
Vinyl Chloride	1 U	1.	5	ug/l	83	82	65-125	0	30
m+p-Xylene	0.8 U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8 U	0.8	5	ug/l	95	92	80-120	3	30

Batch number: 10323SLC026

Sample number(s): 6145766-6145768

Aniline	170 U	170.	500	ug/kg	64	10-107
Benzidine	1,200 U	1,200.	3,300	ug/kg	33	15-121
Benzoic acid	170 U	170.	500	ug/kg	95	10-154
Benzyl alcohol	170 U	170.	500	ug/kg	96	68-111
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	97	79-117
Carbazole	17 U	17.	170	ug/kg	97	77-113
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	96	74-119
4-Chloroaniline	67 U	67.	170	ug/kg	32	10-110
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	88	70-118
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	90	70-104
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	84	68-131
2-Chloronaphthalene	17 U	17.	170	ug/kg	92	67-127
2-Chlorophenol	17 U	17.	170	ug/kg	96	72-112
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	98	79-110

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17 U	17.	170	ug/kg	96		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	88		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	69		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	96		75-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	96		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	110		70-130		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	65		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	63		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	96		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	94		77-111		
bis(2-Ethylhexyl)phthalate	17 U	17.	330	ug/kg	102		75-117		
Hexachlorobenzene	17 U	17.	170	ug/kg	95		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	91		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	86		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	88		68-105		
Isophorone	17 U	17.	170	ug/kg	87		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	95		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	90		66-117		
2-Nitroaniline	17 U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	85		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	67		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	87		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	90		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	83		56-118		
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	88		63-107		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	98		67-141		
Pentachlorophenol	170 U	170.	500	ug/kg	90		35-106		
Phenol	17 U	17.	170	ug/kg	91		58-112		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	88		73-108		
2,4,5-Trichlorophenol	33 U	33.	170	ug/kg	98		76-107		
2,4,6-Trichlorophenol	33 U	33.	170	ug/kg	98		78-111		
Batch number: 10324SLD026 Sample number(s): 6145766-6145768									
Acenaphthene	0.67 U	0.67	1.7	ug/kg	97		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	93		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	100		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	103		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	117		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	134		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	107		44-138		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	127		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	101		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	114		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	104		79-120		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	107		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	109		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	108		70-130		
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	108		67-143		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	102		78-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

<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>
Fluorene	0.67	U	0.67	1.7	ug/kg	107		71-120		
Indeno(1,2,3-cd)pyrene	0.67	U	0.67	1.7	ug/kg	107		62-141		
1-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	99		72-120		
2-Methylnaphthalene	0.67	U	0.67	1.7	ug/kg	89		62-120		
Naphthalene	0.67	U	0.67	1.7	ug/kg	94		67-120		
N-Nitrosodimethylamine	0.67	U	0.67	1.7	ug/kg	89		39-148		
Di-n-octylphthalate	6.0	U	6.0	18	ug/kg	125		55-176		
Phenanthrene	0.67	U	0.67	1.7	ug/kg	101		75-120		
Pyrene	0.67	U	0.67	1.7	ug/kg	102		56-121		
Batch number: 10328WAE026	Sample number(s): 6145769-6145770									
N-Nitrosodimethylamine	1.94		0.500	1.00	ng/l	103	99	70-130	4	30
Batch number: 10333SLD026	Sample number(s): 6145766-6145768									
N-Nitrosodimethylamine	32.8	J	16.7	33.3	ng/kg	97		70-130		
Batch number: 10326A34A	Sample number(s): 6145766-6145768									
9a TPH by EPA 8015B Gas	0.2	U	0.2	1.0	mg/kg	72	71	67-119	1	30
Batch number: 10327B07A	Sample number(s): 6145769-6145771									
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	82	81	75-135	1	30
Batch number: 103270005A	Sample number(s): 6145766-6145768									
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	110		80-120		
2,6-Diamino-4-nitrotoluene	100		100.	300	ug/kg	101	91	54-134	10	30
	U									
2,4-Diamino-6-nitrotoluene	100		100.	300	ug/kg	100	91	54-134	10	30
	U									
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	107		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	106		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	110		80-120		
HMX	130		130.	380	ug/kg	98		74-130		
	U									
Nitrobenzene	50	U	50.	150	ug/kg	103		80-120		
Nitroglycerin	1,000		1,000.	3,000	ug/kg	93		80-120		
	U									
2-Nitrotoluene	100		100.	150	ug/kg	111		78-128		
	U									
3-Nitrotoluene	130		130.	150	ug/kg	108		73-127		
	U									
4-Nitrotoluene	100		100.	150	ug/kg	107		80-120		
	U									
PETN	1,000		1,000.	3,000	ug/kg	106		80-120		
	U									
RDX	63	U	63.	150	ug/kg	104		75-131		
Tetryl	77	U	77.	150	ug/kg	122		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	118		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	108		80-120		
Batch number: 103270023A	Sample number(s): 6145769-6145770									
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	100	100	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	97	97	75-125	0	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	97	97	75-125	0	30
1,3-Dinitrobenzene	0.20	U	0.20	0.60	ug/l	100	100	72-117	0	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	98	98	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	110	110	80-120	0	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
HMX	0.65 U	0.65	2.0	ug/l	99	100	65-125	1	30
Nitrobenzene	0.20 U	0.20	0.60	ug/l	95	95	75-121	0	30
Nitroglycerin	5.2 U	5.2	15	ug/l	96	96	80-120	0	30
2-Nitrotoluene	0.20 U	0.20	0.60	ug/l	100	100	74-120	0	30
3-Nitrotoluene	0.40 U	0.40	1.2	ug/l	98	98	69-107	0	30
4-Nitrotoluene	0.60 U	0.60	1.2	ug/l	98	97	80-120	1	30
PETN	6.0 U	6.0	18	ug/l	104	104	80-120	0	30
RDX	0.20 U	0.20	0.60	ug/l	89	91	70-125	2	30
Tetryl	0.40 U	0.40	0.60	ug/l	89	94	33-147	5	30
1,3,5-Trinitrobenzene	0.20 U	0.20	0.60	ug/l	100	100	53-129	0	30
2,4,6-Trinitrotoluene	0.20 U	0.20	0.60	ug/l	98	100	76-109	2	30
Batch number: 103240002A 17b Formaldehyde by 8315A	Sample number(s): 6145769-6145770 10 U 10. 50 ug/l				94	92	69-130	2	30
Batch number: 103300006A 17a Formaldehyde by 8315A	Sample number(s): 6145766-6145768 600 U 600. 1,500 ug/kg				103		80-126		
Batch number: 103260008A Aroclor 5432 Aroclor 5442 Aroclor 5460 PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260 PCB-1262 PCB-1268	Sample number(s): 6145766-6145768 1.0 U 1.0 3.3 ug/kg 1.0 U 1.0 3.3 ug/kg 1.0 U 1.0 3.3 ug/kg 0.33 U 0.33 1.7 ug/kg 0.50 U 0.50 1.7 ug/kg 0.52 U 0.52 1.7 ug/kg 0.50 U 0.50 1.7 ug/kg 0.33 U 0.33 1.7 ug/kg 0.33 U 0.33 1.7 ug/kg 0.33 U 0.33 1.7 ug/kg 0.33 U 0.33 1.7 ug/kg 0.33 U 0.33 1.7 ug/kg				98 100 124	88	75-125 72-120 65-137	11	30
Batch number: 103260038A EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30 - C40) EFH (C8-C11)	Sample number(s): 6145766-6145768 0.40 U 0.40 1.2 mg/kg 0.40 U 0.40 1.2 mg/kg 0.40 U 0.40 1.2 mg/kg 0.40 U 0.40 1.2 mg/kg 0.40 U 0.40 1.2 mg/kg				90 94 93 82 69		66-113 66-113 66-113 66-113 66-113		
Batch number: 103430020A EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30 - C40) EFH (C8-C11)	Sample number(s): 6145769-6145770 0.10 U 0.10 0.60 mg/l 0.10 U 0.10 0.60 mg/l 0.10 U 0.10 0.60 mg/l 0.10 U 0.10 0.60 mg/l 0.10 U 0.10 0.60 mg/l				102 105 100 107 80	100 101 92 100 76	60-120 60-120 60-120 60-120 60-120	2 4 8 6 5	30 30 30 30 30
Batch number: 103260013A Ethanol Isopropanol Methanol	Sample number(s): 6145769-6145770 200 U 200. 1,000 ug/l 200 U 200. 1,000 ug/l 200 U 200. 1,000 ug/l				100 100 100		66-132 75-125 77-137		
Batch number: 103270004A Ethanol	Sample number(s): 6145766-6145768 100 U 100. 500 ug/kg				112		75-112		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Isopropanol	100 U	100.	500	ug/kg	106		75-125		
Methanol	100 U	100.	500	ug/kg	121		75-134		
Batch number: 103330002A	Sample number(s): 6145769-6145770								
Diethylene glycol	13 J	10.	100	mg/l	95		78-126		
Ethylene glycol	10 U	10.	100	mg/l	90		80-124		
Propylene glycol	10 U	10.	100	mg/l	90		80-120		
Batch number: 103350011A	Sample number(s): 6145766-6145768								
Diethylene glycol	5.0 U	5.0	13	mg/kg	97		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	105		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	96		75-125		
Batch number: 103260007A	Sample number(s): 6145769-6145770								
m-Terphenyl	0.080 U	0.080	0.25	mg/l	93	92	75-125	1	20
o-Terphenyl	0.080 U	0.080	0.25	mg/l	100	100	75-125	0	20
p-Terphenyl	0.080 U	0.080	0.25	mg/l	92	92	75-125	0	20
Batch number: 103260011A	Sample number(s): 6145766-6145768								
m-Terphenyl	1.5 U	1.5	3.5	mg/kg	99	99	75-125	0	20
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	102	102	75-125	0	20
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	99	98	75-125	1	20
Batch number: 10327001	Sample number(s): 6145769-6145770								
1,1-Dimethylhydrazine	0.25 U	0.25	0.50	ug/l	117	104	70-130	12	25
Hydrazine	0.050 U	0.050	0.10	ug/l	110	103	70-130	6	25
Methylhydrazine	0.25 U	0.25	0.50	ug/l	100	103	70-130	3	25
Batch number: 10328002	Sample number(s): 6145766-6145768								
1,1-Dimethylhydrazine	2.0 U	2.0	5.0	ng/g	80	78	70-130	2	30
Hydrazine	0.50 U	0.50	2.0	ng/g	86	80	70-130	8	30
Methylhydrazine	2.0 U	2.0	5.0	ng/g	87	89	70-130	3	30
Batch number: 103281026001A	Sample number(s): 6145766-6145768								
Antimony	0.0659 J	0.0600	0.200	mg/kg	97		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	98		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	110		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	109		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.200 J	0.0660	0.400	mg/kg	100		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	103		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	109		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	110		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	111		78-122		
Batch number: 103281026001B	Sample number(s): 6145766-6145768								
Selenium	0.0400 U	0.0400	0.400	mg/kg	109		79-122		
Batch number: 103281026001C	Sample number(s): 6145766-6145768								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	118		78-122		
Batch number: 103281026001D	Sample number(s): 6145766-6145768								
Barium	0.108 U	0.108	0.400	mg/kg	104		79-121		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

<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: 103285708005	Sample number(s): 6145766-6145768								
Aluminum	5.03 U	5.03	20.0	mg/kg	95		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	93		78-110		
Calcium	10.2 J	6.13	20.0	mg/kg	100		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	92		61-110		
Lithium	0.35 J	0.22	2.0	mg/kg	98		80-120		
Magnesium	9.32 J	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	1.33 J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	93		78-110		
Sodium	37.3 U	37.3	100	mg/kg	99		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	108		79-121		
Tin	1.14 J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	90		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	106		80-120		
Batch number: 103285711001	Sample number(s): 6145766-6145768								
Mercury	0.0028 U	0.0028	0.0967	mg/kg	99		88-123		
Batch number: 10323196601B	Sample number(s): 6145769-6145770								
11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	93	95	90-110	3	20
Batch number: 10334117102A	Sample number(s): 6145769-6145770								
21b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	104	97	90-110	7	20
Batch number: 10335102201A	Sample number(s): 6145766-6145768								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	109		80-120		
Batch number: 10336336201B	Sample number(s): 6145766-6145768								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	108		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	101		90-110		
Batch number: 10336336202A	Sample number(s): 6145766-6145768								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	99		85-115		
Batch number: 10340243201A	Sample number(s): 6145766-6145768								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10323020001A	Sample number(s): 6145769-6145770								
22b pH by 9040B					100		99-101		
Batch number: 10323039401A	Sample number(s): 6145766-6145768								
22a pH by 9045C					99		95-105		
Batch number: 10323182101A	Sample number(s): 6145766-6145768								
Oxidation Reduction Potential					98		98-102		
Batch number: 10342162401A	Sample number(s): 6145766-6145768								
28a Total Solids by 160.3					100		80-120		

Sample Matrix Quality Control

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Quality Control Summary

Client Name: CDM Federal Programs Corp.

Group Number: 1222092

Reported: 01/04/11 at 09:29 AM

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103232AA Sample number(s): 6145766-6145768 UNSPK: P144589									
Acetone	188		15-210						
Benzene	103		55-143						
Bromobenzene	95		43-139						
Bromochloromethane	127		60-137						
Bromodichloromethane	98		53-136						
Bromoform	82		38-124						
Bromomethane	98		42-168						
2-Butanone	113		37-163						
n-Butylbenzene	105		30-146						
sec-Butylbenzene	108		33-157						
tert-Butylbenzene	96		41-152						
Carbon Tetrachloride	96		45-153						
Chlorobenzene	97		49-135						
Chloroethane	99		39-152						
2-Chloroethyl Vinyl Ether	82		32-139						
Chloroform	102		61-142						
Chloromethane	98		51-163						
2-Chlorotoluene	100		42-146						
4-Chlorotoluene	100		39-145						
1,2-Dibromo-3-chloropropane	86		30-139						
Dibromochloromethane	93		51-128						
1,2-Dibromoethane	92		54-129						
Dibromomethane	94		57-130						
1,2-Dichlorobenzene	94		36-133						
1,3-Dichlorobenzene	96		34-134						
1,4-Dichlorobenzene	94		35-136						
Dichlorodifluoromethane	77		26-151						
1,1-Dichloroethane	103		63-142						
1,2-Dichloroethane	98		68-131						
1,1-Dichloroethene	105		61-149						
cis-1,2-Dichloroethene	97		60-136						
trans-1,2-Dichloroethene	86		59-142						
1,2-Dichloropropane	102		62-135						
1,3-Dichloropropane	99		58-129						
2,2-Dichloropropane	81		53-147						
1,1-Dichloropropene	103		54-145						
cis-1,3-Dichloropropene	89		51-131						
trans-1,3-Dichloropropene	85		49-129						
Ethylbenzene	102		44-141						
Freon 113	119		56-156						
Hexachlorobutadiene	91		10-155						
2-Hexanone	102		32-160						
Isopropylbenzene	97		38-144						
p-Isopropyltoluene	103		29-152						
Methyl Tertiary Butyl Ether	80		55-129						
4-Methyl-2-pentanone	87		46-139						
Methylene Chloride	110		61-141						
n-Propylbenzene	112		39-157						
Styrene	94		35-134						
1,1,1,2-Tetrachloroethane	93		52-130						
1,1,2,2-Tetrachloroethane	101		40-152						
Tetrachloroethene	92		42-149						
Toluene	101		50-146						

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,3-Trichlorobenzene	85		10-140						
1,2,4-Trichlorobenzene	83		10-136						
1,1,1-Trichloroethane	95		64-142						
1,1,2-Trichloroethane	94		54-139						
Trichloroethene	98		53-144						
Trichlorofluoromethane	109		47-163						
1,2,3-Trichloropropane	95		45-154						
1,2,4-Trimethylbenzene	104		37-149						
1,3,5-Trimethylbenzene	103		38-150						
Vinyl Chloride	91		50-154						
m+p-Xylene	96		44-137						
o-Xylene	93		42-137						
Batch number: 10323SLC026 Sample number(s): 6145766-6145768 UNSPK: P144589									
Aniline	57	62	14-114	9	30				
Benzidine	21*	0*	35-141	200*	30				
Benzoic acid	32	36	10-173	12	30				
Benzyl alcohol	84	95	55-123	12	30				
4-Bromophenyl-phenylether	91	97	67-129	6	30				
Carbazole	92	96	64-120	4	30				
4-Chloro-3-methylphenol	90	95	53-130	6	30				
4-Chloroaniline	60	64	23-95	5	30				
bis(2-Chloroethoxy)methane	83	90	54-117	9	30				
bis(2-Chloroethyl)ether	81	88	60-116	9	30				
bis(2-Chloroisopropyl)ether	71	79	55-142	10	30				
2-Chloronaphthalene	85	92	50-141	8	30				
2-Chlorophenol	87	95	73-121	8	30				
4-Chlorophenyl-phenylether	94	101	64-119	7	30				
Dibenzofuran	92	97	71-112	6	30				
1,2-Dichlorobenzene	79	87	66-108	10	30				
1,3-Dichlorobenzene	79	88	63-109	11	30				
1,4-Dichlorobenzene	83	91	53-113	9	30				
3,3'-Dichlorobenzidine	58	69	25-123	18	30				
2,4-Dichlorophenol	91	99	78-117	8	30				
2,4-Dimethylphenol	88	95	56-130	8	30				
3,5-Dimethylphenol	101	108	70-130	7	30				
4,6-Dinitro-2-methylphenol	63	75	10-148	17	30				
2,4-Dinitrophenol	44	51	20-143	16	30				
2,4-Dinitrotoluene	93	95	57-114	2	30				
2,6-Dinitrotoluene	90	97	69-123	8	30				
1,2-Diphenylhydrazine	85	92	71-129	7	30				
bis(2-Ethylhexyl)phthalate	96	104	63-122	8	30				
Hexachlorobenzene	91	96	61-111	5	30				
Hexachlorobutadiene	82	90	62-120	9	30				
Hexachlorocyclopentadiene	80	75	10-153	7	30				
Hexachloroethane	77	84	57-109	8	30				
Isophorone	79	87	51-118	9	30				
2-Methylphenol	85	92	47-142	8	30				
4-Methylphenol	82	89	55-126	8	30				
2-Nitroaniline	90	96	67-125	7	30				
3-Nitroaniline	86	91	59-122	5	30				
4-Nitroaniline	74	75	52-112	1	30				
Nitrobenzene	81	90	51-114	11	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitrophenol	88	97	74-115	10	30				
4-Nitrophenol	72	76	39-133	5	30				
N-Nitroso-di-n-propylamine	74	83	60-116	12	30				
N-Nitrosodiphenylamine	91	97	86-145	7	30				
Pentachlorophenol	76	84	17-149	10	30				
Phenol	80	88	58-126	10	30				
1,2,4-Trichlorobenzene	85	93	72-115	9	30				
2,4,5-Trichlorophenol	94	99	34-139	5	30				
2,4,6-Trichlorophenol	93	99	49-140	7	30				
Batch number: 10324SLD026 Sample number(s): 6145766-6145768 UNSPK: P144589									
Acenaphthene	93	93	63-105	0	30				
Acenaphthylene	91	92	55-126	1	30				
Anthracene	99	99	46-136	1	30				
Benzo(a)anthracene	104	101	39-144	3	30				
Benzo(a)pyrene	114	114	34-156	1	30				
Benzo(b)fluoranthene	124	122	43-155	1	30				
Benzo(g,h,i)perylene	103	100	33-141	3	30				
Benzo(k)fluoranthene	122	121	42-144	1	30				
Butylbenzylphthalate	108	109	73-140	1	30				
Di-n-butylphthalate	114	112	78-160	2	30				
Chrysene	104	101	29-156	3	30				
Dibenz(a,h)anthracene	105	102	41-130	3	30				
Diethylphthalate	109	108	87-131	1	30				
Dimethylphthalate	106	106	74-118	0	30				
Bis(2-Ethylhexyl)phthalate	108	107	39-167	1	30				
Fluoranthene	102	101	26-166	1	30				
Fluorene	103	103	45-121	0	30				
Indeno(1,2,3-cd)pyrene	104	102	21-143	2	30				
1-Methylnaphthalene	99	98	72-123	1	30				
2-Methylnaphthalene	89	87	28-121	2	30				
Naphthalene	95	94	61-102	1	30				
N-Nitrosodimethylamine	88	91	48-113	3	30				
Di-n-octylphthalate	119	119	40-192	0	30				
Phenanthrene	100	100	12-165	1	30				
Pyrene	101	99	15-153	2	30				
Batch number: 10333SLD026 Sample number(s): 6145766-6145768 UNSPK: P144599									
N-Nitrosodimethylamine	100	105	70-130	5	30				
Batch number: 10327B07A Sample number(s): 6145769-6145771 UNSPK: P147537									
TPH-GRO S.CA water C5-C12	78		63-154						
Batch number: 103270005A Sample number(s): 6145766-6145768 UNSPK: P144599									
4-Amino-2,6-Dinitrotoluene	108	103	80-127	5	50				
2-Amino-4,6-Dinitrotoluene	110	107	80-137	4	50				
1,3-Dinitrobenzene	106	103	38-166	3	50				
2,4-Dinitrotoluene	106	102	80-131	4	50				
2,6-Dinitrotoluene	111	106	80-127	4	50				
HMX	100	97	63-128	3	50				
Nitrobenzene	104	100	80-125	4	50				
Nitroglycerin	106	103	80-120	3	50				
2-Nitrotoluene	111	107	80-122	4	50				

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Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
3-Nitrotoluene	107	104	72-119	3	50				
4-Nitrotoluene	107	103	80-125	4	50				
PETN	111	106	80-121	4	50				
RDX	96	94	75-129	2	50				
Tetryl	111	107	55-174	4	50				
1,3,5-Trinitrobenzene	115	112	82-126	3	50				
2,4,6-Trinitrotoluene	107	101	82-130	6	50				
Batch number: 103300006A	Sample number(s): 6145766-6145768 UNSPK: P144599								
17a Formaldehyde by 8315A	98	101	80-120	3	50				
Batch number: 103260008A	Sample number(s): 6145766-6145768 UNSPK: P144589								
PCB-1016	106	123	29-146	15	50				
PCB-1260	127	144	39-149	13	50				
Batch number: 103260038A	Sample number(s): 6145766-6145768 UNSPK: P144599								
EFH (C12-C14)	81	77	49-123	5	20				
EFH (C15-C20)	113	82	49-123	17	20				
EFH (C21-C30)	254 (2)	39 (2)	49-123	18	20				
EFH (C30 - C40)	247 (2)	143 (2)	49-123	11	20				
EFH (C8-C11)	69	68	49-123	2	20				
Batch number: 103260013A	Sample number(s): 6145769-6145770 UNSPK: P147354								
Ethanol	100	100	69-125	0	20				
Isopropanol	100	100	75-125	0	20				
Methanol	104	96	61-131	8	20				
Batch number: 103270004A	Sample number(s): 6145766-6145768 UNSPK: P144599								
Ethanol	92	85	24-143	8	20				
Isopropanol	87	82	75-125	7	20				
Methanol	103	92	45-136	12	20				
Batch number: 103330002A	Sample number(s): 6145769-6145770 UNSPK: P149371								
Diethylene glycol	100	100	83-130	0	20				
Ethylene glycol	105	105	89-125	0	20				
Propylene glycol	95	90*	91-128	5	20				
Batch number: 103350011A	Sample number(s): 6145766-6145768 UNSPK: P144599								
Diethylene glycol	49*	79	59-109	47*	20				
Ethylene glycol	86	101	63-107	16	20				
Propylene glycol	79	94	63-107	17	20				
Batch number: 10327001	Sample number(s): 6145769-6145770 UNSPK: 6141806								
1,1-Dimethylhydrazine	105	93	70-130	13	25				
Hydrazine	110	105	70-130	4	25				
Methylhydrazine	106	100	70-130	5	25				
Batch number: 10328002	Sample number(s): 6145766-6145768 UNSPK: 6145766								
1,1-Dimethylhydrazine	41	52	10-116	23	30				
Hydrazine	9*	8*	11-102	5	30				
Methylhydrazine	21	25	10-92	19	30				
Batch number: 103281026001A	Sample number(s): 6145766-6145768 UNSPK: P149366 BKG: P149366								

*- 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: 01/04/11 at 09:29 AM

Group Number: 1222092

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup Max	RPD
Antimony	37*	33*	75-125	9	20	0.169 J	0.114 J	39* (1)	20	
Arsenic	135*	104	75-125	9	20	4.69	4.34	8	20	
Beryllium	91	83	75-125	5	20	0.554	0.495	11	20	
Cadmium	109	113	75-125	3	20	0.0533 J	0.0457 J	15 (1)	20	
Chromium	114	70*	75-125	18	20	15.2	14.3	6	20	
Cobalt	106	87	75-125	18	20	5.85	5.43	8	20	
Copper	111	79	75-125	21*	20	5.53	5.56	0	20	
Lead	146*	89	75-125	20	20	4.85	4.71	3	20	
Nickel	117	73*	75-125	23*	20	9.20	8.44	9	20	
Silver	124	101	75-125	20	20	0.0199 J	0.0117 U	200* (1)	20	
Thallium	126*	91	75-125	19	20	0.278	0.270	3 (1)	20	
Vanadium	115	18*	75-125	24*	20	33.2	30.4	9	20	
Zinc	145 (2)	51 (2)	75-125	15	20	51.3	48.1	6	20	
Batch number: 103281026001B	Sample number(s): 6145766-6145768 UNSPK: P149366 BKG: P149366									
Selenium	125	106	75-125	15	20	0.118 J	0.0623 J	62* (1)	20	
Batch number: 103281026001C	Sample number(s): 6145766-6145768 UNSPK: P149366 BKG: P149366									
Molybdenum	114	97	75-125	16	20	0.171	0.174	2 (1)	20	
Batch number: 103281026001D	Sample number(s): 6145766-6145768 UNSPK: P149366 BKG: P149366									
Barium	-9 (2)	-294 (2)	75-125	24*	20	132	101	27*	20	
Batch number: 103285708005	Sample number(s): 6145766-6145768 UNSPK: P149366 BKG: P149366									
Aluminum	940 (2)	1353 (2)	75-125	5	20	12,000	12,300	3	20	
Boron	97	97	84-115	1	20	0.975 J	0.864 U	200* (1)	20	
Calcium	224 (2)	199 (2)	75-125	3	20	2,520	2,650	5	20	
Iron	407 (2)	1166 (2)	75-125	4	20	18,800	19,400	3	20	
Lithium	99	101	82-114	0	20	24.2	26.2	8	20	
Magnesium	175 (2)	261 (2)	75-125	3	20	4,550	4,730	4	20	
Manganese	85 (2)	120 (2)	75-125	6	20	240	277	14	20	
Phosphorus	112	114	75-125	0	20	216	226	5	20	
Potassium	112	130*	75-125	5	20	1,640	1,680	3	20	
Sodium	105	105	75-125	1	20	284	299	5 (1)	20	
Strontium	102	103	75-115	1	20	21.8	24.0	10	20	
Tin	91	90	80-110	3	20	2.31 J	2.38 J	3 (1)	20	
Titanium	445 (2)	344 (2)	75-125	7	20	1,150	1,180	2	20	
Zirconium	101	101	75-125	2	20	4.13 J	4.87	17 (1)	20	
Batch number: 103285711001	Sample number(s): 6145766-6145768 UNSPK: P149366 BKG: P149366									
Mercury	106	99	65-135	5	20	0.0028 U	0.0027 U	0 (1)	20	
Batch number: 10335102201A	Sample number(s): 6145766-6145768 UNSPK: P144599 BKG: P144599									
21a Cyanide by 9012B	109		75-125			0.18 U	0.17 U	0 (1)	20	
Batch number: 10336336201B	Sample number(s): 6145766-6145768 UNSPK: P144594 BKG: P144594									
11a Anions by 300.0 - Fluoride	44*		80-120			5.7	5.8	2	20	
11a Anions by 300.0 - Nitrate	97		80-120			1.2 J	1.7	37* (1)	20	
Batch number: 10336336202A	Sample number(s): 6145766-6145768 UNSPK: P144599 BKG: P144599									

*- 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: 01/04/11 at 09:29 AM

Group Number: 1222092

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup Max
7a Perchlorate EPA 314.0	121*		80-120			9.0	U	9.0	U	0 (1)	15
Batch number: 10340243201A	Sample number(s): 6145766-6145768 UNSPK: P144589 BKG: P144589										
3a Cr VI by EPA 7199	93		75-125			0.32	J	0.48	J	42* (1)	20
Batch number: 10323020001A	Sample number(s): 6145769-6145770 BKG: P146119										
22b pH by 9040B						6.9		6.9		0	1
Batch number: 10323039401A	Sample number(s): 6145766-6145768 BKG: 6145768										
22a pH by 9045C						5.85		5.86		0	1
Batch number: 10323182101A	Sample number(s): 6145766-6145768 BKG: 6145768										
Oxidation Reduction Potential						554		555		0	6
Batch number: 10342162401A	Sample number(s): 6145766-6145768 BKG: P149363										
28a Total Solids by 160.3						10		9.8		2	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: B103232AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6145766	97	99	98	92
6145767	97	96	98	91
6145768	97	96	98	91
Blank	96	93	97	90
LCS	95	100	99	94
LCSD	95	97	98	94
MS	94	94	100	95
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM

Batch number: E103281AA

Toluene-d8

6145771	101
Blank	99
LCS	100
LCSD	100

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM

Batch number: E103282AA

Toluene-d8

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

Surrogate Quality Control

6145766 98
6145767 99
6145768 99
Blank 100
LCS 99
LCSD 99

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260

Batch number: Y103263AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6145771	98	96	103	102
Blank	99	94	103	100
LCS	99	99	104	101
LCSD	97	98	104	100

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

Analysis Name: 5a Semivolatiles by EPA 8270C

Batch number: 10323SLC026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6145766	83	85	84	80	85	88
6145767	70	74	80	65	70	83
6145768	73	76	86	72	78	83
Blank	82	85	91	80	85	79
LCS	88	91	90	80	83	84
MS	78	80	89	74	81	83
MSD	84	88	92	80	85	88

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

Analysis Name: 4a Select SVOC EPA 8270SIM

Batch number: 10324SLD026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6145766	80	83	85
6145767	80	82	87
6145768	75	78	83
Blank	82	87	94
LCS	83	88	89
MS	81	86	89
MSD	85	87	88

Limits: 40-130 45-130 45-135

Analysis Name: 19b NDMA by 1625C

Batch number: 10328WAE026

N-Nitrosodimethylamine-d6

6145769 137
6145770 128
Blank 92

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

Surrogate Quality Control

LCS 92
LCSD 105

Limits: 50-150

Analysis Name: 19a NDMA by 1625C
Batch number: 10333SLD026
N-Nitrosodimethylamine-
d6

6145766 66
6145767 90
6145768 87
Blank 90
LCS 69
MS 72
MSD 66

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Gas
Batch number: 10326A34A
Trifluorotoluene-F

6145766 81
6145767 84
6145768 81
Blank 87
LCS 89
LCSD 88

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas
Batch number: 10327B07A
Trifluorotoluene-F

6145769 80
6145770 82
6145771 80
Blank 80
LCS 92
LCSD 91
MS 86

Limits: 63-135

Analysis Name: 17b Formaldehyde by 8315A
Batch number: 103240002A
Butyraldehyde

6145769 101
6145770 94
Blank 98
LCS 99
LCSD 93

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

Surrogate Quality Control

Limits: 45-145

Analysis Name: 8a PCBs/PCTs by 8082

Batch number: 103260008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6145766	87	93
6145767	92	98
6145768	231*	245*
Blank	106	120
LCS	100	116
LCSD	108	122*
MS	107	119
MSD	126	136*

Limits: 53-139 45-120

Analysis Name: 20a Energetics by 8330A

Batch number: 103270005A

2-Nitro-m-xylene

6145766	110
6145767	111
6145768	114
Blank	115
LCS	114
LCSD	112
MS	126
MSD	114

Limits: 80-146

Analysis Name: 20b Energetics by 8330A

Batch number: 103270023A

2-Nitro-m-xylene

6145769	120
6145770	103
Blank	98
LCS	103
LCSD	101

Limits: 50-134

Analysis Name: 17a Formaldehyde by 8315A

Batch number: 103300006A

Butyraldehyde

6145766	99
6145767	98
6145768	99
Blank	101
LCS	101
MS	95
MSD	99

Limits: 64-126

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

Surrogate Quality Control

Analysis Name: 26b Terphenyls by 8015B
Batch number: 103260007A
n-Triacontane-d62

6145769	190*
6145770	111
Blank	120
LCS	95
LCSD	112

Limits: 50-150

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103260011A
n-Triacontane-d62

6145766	94
6145767	97
6145768	96
Blank	104
LCS	103
LCSD	103

Limits: 50-150

Analysis Name: 25b Alcohols by 8015B
Batch number: 103260013A
Acetone

6145769	89
6145770	100
Blank	108
LCS	100
MS	98
MSD	98

Limits: 54-147

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103260038A
Chlorobenzene Orthoterphenyl

6145766	78	80
6145767	82	84
6145768	73	76
Blank	74	76
LCS	81	85
MS	80	85
MSD	82	86

Limits: 37-125 47-145

Analysis Name: 25a Alcohols by 8015B
Batch number: 103270004A
Acetone

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:29 AM

Group Number: 1222092

Surrogate Quality Control

6145766 83
6145767 102
6145768 99
Blank 98
LCS 97
MS 82
MSD 82

Limits: 42-138

Analysis Name: 27b Glycols by 8015B
Batch number: 103330002A
Tetramethylene glycol

6145769 82
6145770 89
Blank 88
LCS 98
MS 97
MSD 98

Limits: 10-164

Analysis Name: 27a Glycols by 8015B
Batch number: 103350011A
Tetramethylene glycol

6145766 69
6145767 96
6145768 36*
Blank 116
LCS 99
MS 75
MSD 86

Limits: 50-119

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 103430020A
Chlorobenzene Orthoterphenyl

6145769	89	90
6145770	92	91
Blank	82	88
LCS	90	95
LCSD	87	94

Limits: 28-152 52-131

*- Outside of specification

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13013 1222092 6145766-71

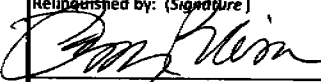
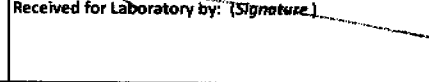
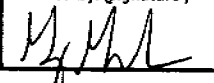
CHAIN OF CUSTODY RECORD

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						VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-EFH EPA 8015B	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199 [®]	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A		**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols/Glycols EPA 8015B	**Terphenyls EPA 8015B
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																				
SL-067-SA5C-SB-3.0-4.0	11.18.10	1058	soil	none	2 x 16 oz jars			X		X	X	X	X	X	X										
SL-067-SA5C-SB-3.0-4.0	11.18.10	1058	soil	none	1 x 16 oz jar										X	X		X	X	X	X		X		
SL-067-SA5C-SB-3.0-4.0	11.18.10	1058	soil	none	3 x 4 oz jar				X													X			
SL-067-SA5C-SB-3.0-4.0	11.18.10	1058	soil	none	1 x 4 oz amber jar												X								
SL-054-SA5C-SB-3.0-4.0	11.18.10	1459	soil	none	2 x 16 oz jars			X		X	X	X	X	X											
SL-054-SA5C-SB-3.0-4.0	11.18.10	1459	soil	none	1 x 16 oz jar										X	X		X	X	X	X		X		
SL-054-SA5C-SB-3.0-4.0	11.18.10	1459	soil	none	3 x 4 oz jar				X													X			
SL-054-SA5C-SB-3.0-4.0	11.18.10	1459	soil	none	1 x 4 oz amber jar												X								
SL-068-SA5C-SB-3.5-4.5	11.18.10	1330	soil	none	2 x 16 oz jars			X		X	X	X	X	X											
SL-068-SA5C-SB-3.5-4.5	11.18.10	1330	soil	none	1 x 16 oz jar										X	X		X	X	X	X		X		
SL-068-SA5C-SB-3.5-4.5	11.18.10	1330	soil	none	3 x 4 oz jar				X													X			
SL-068-SA5C-SB-3.5-4.5	11.18.10	1330	soil	none	1 x 4 oz amber jar												X								
Relinquished by: (Signature) <i>[Signature]</i>						Date/Time 11.18.10 1630		Received for Laboratory by: (Signature)						Date/Time		Laboratory: Lancaster Laboratories, Inc.									
Received by: (Signature) <i>[Signature]</i>						Date/Time 11/18/10 855		Airbill No. 00732992 Tracking Number 869514313297						Cooler 2											

869514313297

13013 1222092 6145766-71

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	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols EPA 8015B	**Glycols EPA 8015B	**Terphenyls EPA 8015B	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers															
FB05-SA5C-111810	11.18.10	0830	water	none	1-500 ml poly											X				
FB05-SA5C-111810	11.18.10	0830	water	NaOH & ascorbic acid	1-500 ml poly										X					
EB09-SA5C-111810	11.18.10	1230	water	none	1-500 ml poly											X				
EB09-SA5C-111810	11.18.10	1230	water	NaOH & ascorbic acid	1-500 ml poly									X						
FB05-SA5C-111810	11.18.10	0830	water	none	1-250 ml glass jar					X										
EB09-SA5C-111810	11.18.10	1230	water	none	1-250 ml glass jar					X										
FB05-SA5C-111810	11.18.10	0830	water	acetate buffer	1-40 ml amber vial						X									
EB09-SA5C-111810	11.18.10	1230	water	acetate buffer	1-40 ml amber vial						X									
FB05-SA5C-111810	11.18.10	0830	water	HCl	3-40 ml vials			X												
EB09-SA5C-111810	11.18.10	1230	water	HCl	3-40 ml vials			X												
FB05-SA5C-111810	11.18.10	0830	water	HCl	2-40 ml vials												X			
EB09-SA5C-111810	11.18.10	1230	water	HCl	2-40 ml vials												X			
SL-054-SA5C-SB-4.0	11.18.10	1455	soil	none	5 encore samplers	X	X	X												
SL-067-SA5C-SB-4.0	11.18.10	1050	soil	none	5 encore samplers	X	X	X												
SL-068-SA5C-SB-4.5	11.18.10	1325	soil	none	5 encore samplers	X	X	X												
TB-111810	11.18.10	1630	water	HCl	4-40 ml vials	X	X	X												
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Laboratory:												
		11.18.10 1630						Lancaster Laboratories, Inc.												
Received by: (Signature)		Date/Time		Airbill No.		Tracking Number		Cooler 3												
		11/19/10 855		00732992		869514314639														

869514314639

CHAIN OF CUSTODY RECORD

13013

1222092

6145766-71

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						TPH-EFH EPA 8015B Mod.	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**p-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols EPA 8015B	**Glycols EPA 8015B	**Terphenyls EPA 8015B	Other Instructions and Notes
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers												
FB05-SA5C-111810	11.18.10	0830	water	HCl	2 - 1 liter amber	X											X
FB05-SA5C-111810	11.18.10	0830	water	none	2 - 1 liter amber					X	X						
EB09-SA5C-111810	11.18.10	1230	water	HCl	2 - 1 liter amber	X											X
EB09-SA5C-111810	11.18.10	1230	water	none	3 - 1 liter amber					X	X						
FB05-SA5C-111810	11.18.10	0830	water	none	2 - 40 ml clear glass		X										
EB09-SA5C-111810	11.18.10	1230	water	none	2 - 40 ml clear glass		X										
FB05-SA5C-111810	11.18.10	0830	water	none	2 - 40 ml clear glass											X	
EB09-SA5C-111810	11.18.10	1230	water	none	2 - 40 ml clear glass											X	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)				Date/Time				Laboratory:							
<i>Sam Kim</i>	11.18.10 1630									Lancaster Laboratories, Inc.							
Received by: (Signature)	Date/Time	Airbill No.				Cooler 1											
<i>ML</i>	11/18/10 855	00732992															
		Tracking Number 869514313286															

869514313286

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

January 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/20/2010

Group Number: 1222291

SDG: DE020

PO Number: 1203-004-007-AL

Release Number: Tracking #11667

State of Sample Origin: CA

Client Sample DescriptionSL-051-SA5C-SB-3.0-4.0 Soil
SL-052-SA5C-SB-2.5-3.0 Soil
SL-042-SA5C-SS-0.0-0.5 Soil
TB-111910 WaterLancaster Labs (LLI) #6147113
6147114
6147115
6147116

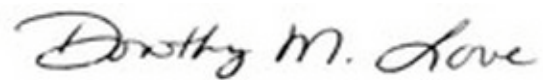
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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

Attn: Todd Burgess

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

Respectfully Submitted,



Dorothy M. Love
Group Leader

Sample Description: SL-051-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SB-3.0-4.0

LLI Sample # SW 6147113
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 11:45

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-51 SDG#: DE020-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.5 U	6.5	7.8	0.87
06192	Benzene	71-43-2	0.1 U	0.1	3.9	0.87
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9	0.87
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9	0.87
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9	0.87
06192	Bromoform	75-25-2	0.39 U	0.39	3.9	0.87
06192	Bromomethane	74-83-9	0.24 U	0.24	3.9	0.87
06192	2-Butanone	78-93-3	1.2 U	1.2	7.8	0.87
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9	0.87
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9	0.87
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	3.9	0.87
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	3.9	0.87
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9	0.87
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9	0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9	0.87
06192	Chloroform	67-66-3	0.12 U	0.12	3.9	0.87
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9	0.87
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	3.9	0.87
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	3.9	0.87
06192	Chlorotrifluoroethene	79-38-9	0.49 U	0.49	4.9	0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.68 U	0.68	3.9	0.87
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	3.9	0.87
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	3.9	0.87
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.9	0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9	0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9	0.87
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	3.9	0.87
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9	0.87
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9	0.87
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	3.9	0.87
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9	0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	3.9	0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9	0.87
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	3.9	0.87
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9	0.87
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	3.9	0.87
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9	0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	3.9	0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	3.9	0.87
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9	0.87
06192	Freon 113	76-13-1	0.11 U	0.11	3.9	0.87
06192	Freon 133a	75-88-7	0.49 U	0.49	4.9	0.87
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	3.9	0.87
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.8	0.87
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9	0.87
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9	0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	3.9	0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.8	0.87
06192	Methylene Chloride	75-09-2	0.23 U	0.23	3.9	0.87
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9	0.87

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

Sample Description: SL-051-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SB-3.0-4.0

LLI Sample # SW 6147113
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 11:45

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-51 SDG#: DE020-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.1 U	0.1	3.9	0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.9	0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22	3.9	0.87
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	3.9	0.87
06192	Toluene	108-88-3	0.09 J	0.08	3.9	0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	3.9	0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	3.9	0.87
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	3.9	0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.9	0.87
06192	Trichloroethene	79-01-6	0.15 U	0.15	3.9	0.87
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28	3.9	0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.9	0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39	3.9	0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.9	0.87
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	3.9	0.87
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	3.9	0.87
06192	o-Xylene	95-47-6	0.17 U	0.17	3.9	0.87
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.2 U	5.2	16	23.32
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	Benzo(g,h,i)perylene	191-24-2	35 J	19	190	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

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

Sample Description: SL-051-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SB-3.0-4.0

LLI Sample # SW 6147113
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 11:45

CDM Federal Programs Corp.

14420 Albemarle Point Place

Submitted: 11/20/2010 09:15

Suite 210

Reported: 01/04/2011 09:34

Chantilly VA 20151

SL-51 SDG#: DE020-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1,2-Diphenylhydrazine	122-66-7	19	U 19	190	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	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	
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(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

Sample Description: SL-051-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SB-3.0-4.0

LLI Sample # SW 6147113
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 11:45

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-51 SDG#: DE020-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	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
Perchlorate SW-846 6850 1/2007						
06557	6a Perchlorate EPA 6850	14797-73-0	2.6 J	2.3	5.6	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56 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
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	24,200	5.39	21.4	1
07914	Boron	7440-42-8	1.42 J	0.954	5.36	1
01650	Calcium	7440-70-2	22,200	6.57	21.4	1
01654	Iron	7439-89-6	21,400	5.05	21.4	1
01656	Lithium	7439-93-2	32.4	0.24	2.1	1
01657	Magnesium	7439-95-4	4,860	2.72	10.7	1
06958	Manganese	7439-96-5	117	0.0836	0.536	1
10145	Phosphorus	7723-14-0	169	0.600	10.7	1
01662	Potassium	7440-09-7	1,590	19.3	53.6	1
01667	Sodium	7440-23-5	377	40.0	107	1
07968	Strontium	7440-24-6	53.7	0.0665	0.536	1
06969	Tin	7440-31-5	2.07 J	1.07	10.7	1
06970	Titanium	7440-32-6	1,140	2.04	5.36	5
10146	Zirconium	7440-67-7	3.60 J	0.900	5.36	1
SW-846 6020						
06124	Antimony	7440-36-0	0.113 J	0.0656	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	7.15	0.0656	0.437	2
06126	Barium	7440-39-3	107	0.118	0.437	2
06127	Beryllium	7440-41-7	0.827	0.0175	0.109	2
06128	Cadmium	7440-43-9	0.0823 J	0.0393	0.109	2
06131	Chromium	7440-47-3	27.0	0.131	0.437	2

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

Sample Description: SL-051-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SB-3.0-4.0

LLI Sample # SW 6147113
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 11:45

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-51 SDG#: DE020-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06132	Cobalt	7440-48-4	4.73	0.0219	0.109	2
06133	Copper	7440-50-8	8.53	0.0721	0.437	2
06135	Lead	7439-92-1	7.91	0.0114	0.219	2
06138	Molybdenum	7439-98-7	0.462	0.0546	0.109	2
06139	Nickel	7440-02-0	14.7	0.109	0.437	2
06141	Selenium	7782-49-2	0.0854 J	0.0437	0.437	2
06142	Silver	7440-22-4	0.107 J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.324	0.0328	0.109	2
06148	Vanadium	7440-62-2	50.2	0.0240	0.109	2
06149	Zinc	7440-66-6	47.9	0.612	3.28	2
	SW-846 7471A		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	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.5	0.89	1.1	1
	EPA 314.0		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	
05892	3a Cr VI by EPA 7199	18540-29-9	0.40 J	0.22	1.1	1
	ASTM D1498		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	496	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.27	0.0100	0.0100	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11624	28a Total Solids by 160.3	n.a.	10.3	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
The volatile analysis was performed on soil from SL-051-SA5C-SB-4.0.

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

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

Sample Description: SL-051-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SB-3.0-4.0

LLI Sample # SW 6147113
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 11:45

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-51 SDG#: DE020-01

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	B103191AB	11/24/2010 13:37	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103282AA	11/24/2010 16:18	Jason M Long	23.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032423058	11/20/2010 14:45	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032423058	11/20/2010 14:52	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032423058	11/20/2010 14:53	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032423058	11/20/2010 14:46	Christopher D Meeks	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 03:02	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLB026	12/03/2010 20:16	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLB026	11/29/2010 11:45	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103330019A	12/01/2010 16:46	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/02/2010 02:58	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103330019A	11/30/2010 08:50	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:01	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:01	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:01	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 03:01	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 20:06	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:01	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:01	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:01	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 20:06	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:01	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:01	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:01	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 20:10	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 20:06	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 14:26	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:26	Choon Y Tian	2

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

Sample Description: SL-051-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-051-SA5C-SB-3.0-4.0

LLI Sample # SW 6147113
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 11:45

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-51 SDG#: DE020-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:26	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:26	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 10:53	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10337337202A	12/06/2010 17:00	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10336336202A	12/06/2010 18:58	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10340243201A	12/07/2010 14:30	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10337337202A	12/03/2010 13:25	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10336336202A	12/02/2010 13:45	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10327182105A	11/23/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10327039408A	11/23/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	William C Schwebel	1

Sample Description: SL-052-SA5C-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5C-SB-2.5-3.0

LLI Sample # SW 6147114
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 10:45

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-52 SDG#: DE020-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4 U	7.4	8.9	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	0.37 U	0.37	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	0.28 U	0.28	4.4	1.01
06192	2-Butanone	78-93-3	1.4 U	1.4	8.9	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	0.16 U	0.16	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	0.37 U	0.37	4.4	1.01
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.4	1.01
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.4	1.01
06192	Chlorotrifluoroethene	79-38-9	0.56 U	0.56	5.6	1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78 U	0.78	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	0.27 U	0.27	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	0.17 U	0.17	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	0.56 U	0.56	5.6	1.01
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.4	1.01
06192	2-Hexanone	591-78-6	1.8 U	1.8	8.9	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	8.9	1.01
06192	Methylene Chloride	75-09-2	1.0 J	0.27	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

Sample Description: SL-052-SA5C-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5C-SB-2.5-3.0

LLI Sample # SW 6147114
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 10:45

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-52 SDG#: DE020-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.11 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	0.26 U	0.26	4.4	1.01
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.4	1.01
06192	Toluene	108-88-3	0.15 J	0.09	4.4	1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	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	0.17 U	0.17	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	0.37 U	0.37	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						
10326	1,4-Dioxane	123-91-1	5.4 U	5.4	16	24.46
GC/MS Semivolatiles EPA 1625C						
11622	N-Nitrosodimethylamine	62-75-9	60.1	18.3	36.5	1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 35 ng/kg. The data reported here is from the initial extraction of the sample.						
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

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

Sample Description: SL-052-SA5C-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5C-SB-2.5-3.0

LLI Sample # SW 6147114
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 10:45

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-52 SDG#: DE020-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	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	bis(2-Ethylhexyl)phthalate	117-81-7	28	J 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	
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

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

Sample Description: SL-052-SA5C-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5C-SB-2.5-3.0

LLI Sample # SW 6147114
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 10:45

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-52 SDG#: DE020-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
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	Fluoranthene	206-44-0	0.73 U	0.73	1.8	1
10138	Fluorene	86-73-7	0.73 U	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.73 U	0.73	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.73 U	0.73	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.73 U	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73 U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20	1
10138	Phenanthrene	85-01-8	0.73 U	0.73	1.8	1
10138	Pyrene	129-00-0	0.73 U	0.73	1.8	1
GC Volatiles TPH GRO SW-846 8015B mod						
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1	22.48
Explosives SW-846 8330A						
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82 U	82	160	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55 U	55	160	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	330	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	330	1
10132	1,3-Dinitrobenzene	99-65-0	55 U	55	160	1
10132	2,4-Dinitrotoluene	121-14-2	55 U	55	160	1
10132	2,6-Dinitrotoluene	606-20-2	55 U	55	160	1
10132	HMX	2691-41-0	140 U	140	410	1
10132	Nitrobenzene	98-95-3	55 U	55	160	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,300	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1
10132	3-Nitrotoluene	99-08-1	140 U	140	160	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1
10132	PETN	78-11-5	1,100 U	1,100	3,300	1
10132	RDX	121-82-4	68 U	68	160	1
10132	Tetryl	479-45-8	140 U	140	160	1
10132	1,3,5-Trinitrobenzene	99-35-4	55 U	55	160	1
10132	2,4,6-Trinitrotoluene	118-96-7	55 U	55	160	1
Due to interfering peaks on the chromatogram, the values reported for tetryl represent the lowest reporting limits attainable.						
HPLC Organics SW-846 8315A						
04173	17a Formaldehyde by 8315A	50-00-0	660 U	660	1,600	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1

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

Sample Description: SL-052-SA5C-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5C-SB-2.5-3.0

LLI Sample # SW 6147114
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 10:45

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-52 SDG#: DE020-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs						
	SW-846 8082		ug/kg	ug/kg	ug/kg	
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
GC Extractable TPH						
	SW-846 8015B modified		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.	0.44 U	0.44	1.3	1
10199	EFH (C21-C30)	n.a.	0.44 U	0.44	1.3	1
10199	EFH (C30 - C40)	n.a.	0.45 J	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	
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	330 J	110	550	1
GC Miscellaneous						
	SW-846 8015B modified		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
The samples were 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.						
Diethylene glycol in the calibration check standard injected after the sample was outside the 15%D acceptance criteria. This effect is attributed to the sample matrix and the data is reported.						
Terphenyls						
	SW-846 8015B		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
Misc. Organics						
	SW-846 8315A modified		ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.2 U	2.2	5.5	1
10346	Hydrazine	302-01-2	0.55 U	0.55	2.2	1
10346	Methylhydrazine	60-34-4	2.2 U	2.2	5.5	1

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

Sample Description: SL-052-SA5C-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5C-SB-2.5-3.0

LLI Sample # SW 6147114
LLI Group # 1222291
Account # 13013

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Submitted: 11/20/2010 09:15

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SL-52 SDG#: DE020-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	23,900	5.40	21.5	1
07914	Boron	7440-42-8	2.00 J	0.956	5.37	1
01650	Calcium	7440-70-2	2,610	6.58	21.5	1
01654	Iron	7439-89-6	27,300	5.06	21.5	1
01656	Lithium	7439-93-2	28.7	0.24	2.1	1
01657	Magnesium	7439-95-4	4,900	2.73	10.7	1
06958	Manganese	7439-96-5	243	0.0838	0.537	1
10145	Phosphorus	7723-14-0	149	0.601	10.7	1
01662	Potassium	7440-09-7	1,940	19.3	53.7	1
01667	Sodium	7440-23-5	414	40.1	107	1
07968	Strontium	7440-24-6	25.7	0.0666	0.537	1
06969	Tin	7440-31-5	2.62 J	1.07	10.7	1
06970	Titanium	7440-32-6	1,490	2.04	5.37	5
10146	Zirconium	7440-67-7	5.07 J	0.902	5.37	1
SW-846 6020						
	mg/kg		mg/kg	mg/kg		
06124	Antimony	7440-36-0	0.198 J	0.0638	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	9.22	0.0638	0.425	2
06126	Barium	7440-39-3	95.3	0.115	0.425	2
06127	Beryllium	7440-41-7	0.866	0.0170	0.106	2
06128	Cadmium	7440-43-9	0.0461 J	0.0383	0.106	2
06131	Chromium	7440-47-3	27.5	0.128	0.425	2
06132	Cobalt	7440-48-4	10.5	0.0213	0.106	2
06133	Copper	7440-50-8	9.60	0.0702	0.425	2
06135	Lead	7439-92-1	10.8	0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.776	0.0532	0.106	2
06139	Nickel	7440-02-0	12.9	0.106	0.425	2
06141	Selenium	7782-49-2	0.144 J	0.0425	0.425	2
06142	Silver	7440-22-4	0.0688 J	0.0128	0.106	2
06145	Thallium	7440-28-0	0.313	0.0319	0.106	2
06148	Vanadium	7440-62-2	60.2	0.0234	0.106	2
06149	Zinc	7440-66-6	55.3	0.595	3.19	2
SW-846 7471A						
	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	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	9.6	0.88	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.6 J	0.88	1.6	1
EPA 314.0						
	ug/kg		ug/kg	ug/kg		
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	32.9	1
SW-846 7199						
	mg/kg		mg/kg	mg/kg		
05892	3a Cr VI by EPA 7199	18540-29-9	0.39 J	0.22	1.1	1

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

Sample Description: SL-052-SA5C-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5C-SB-2.5-3.0

LLI Sample # SW 6147114
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-52 SDG#: DE020-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		SW-846 9012B	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	
01821	Oxidation Reduction Potential	n.a.	486	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.53	0.0100	0.0100	1
Wet Chemistry		EPA 160.3 modified	%	%	%	
11624	28a Total Solids by 160.3	n.a.	8.7	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-052-SA5C-SB-3.0.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103191AB	11/24/2010 13:59	Chelsea B Eastep	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103282AA	11/24/2010 16:37	Jason M Long	24.46
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032423058	11/20/2010 14:50	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032423058	11/20/2010 14:53	Christopher D Meeks	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032423058	11/20/2010 14:53	Christopher D Meeks	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032423058	11/20/2010 14:51	Christopher D Meeks	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/21/2010 22:37	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 03:28	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLB026	12/03/2010 20:50	Gregory J Drahovsky	1

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

Sample Description: SL-052-SA5C-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5C-SB-2.5-3.0

LLI Sample # SW 6147114
LLI Group # 1222291
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Project Name: SSFL Area IV Collocated Soil Sampling

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SL-52 SDG#: DE020-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLB026	11/29/2010 11:45	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10326A34A	11/22/2010 21:31	Marie D John	22.48
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201032423058	11/20/2010 14:50	Christopher D Meeks	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103270005A	12/01/2010 18:11	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 20:39	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/02/2010 15:15	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103270005A	11/23/2010 13:00	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103260038A	12/02/2010 10:19	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103270004A	11/24/2010 17:44	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 21:16	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103260011A	12/01/2010 07:59	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103260038A	11/23/2010 08:15	Kerrie A Freeburn	1
10303	Terphenyls soil prep	SW-846 3550B	1	103260011A	11/22/2010 18:15	Sally L Appleyard	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103270004A	11/24/2010 12:30	Marie D John	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10328002	11/25/2010 22:54	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:05	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:05	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:05	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 03:05	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 20:13	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:05	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:05	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:05	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 20:13	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:05	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:05	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:05	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 20:16	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 20:13	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 14:29	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2

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

Sample Description: SL-052-SA5C-SB-2.5-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-052-SA5C-SB-2.5-3.0

LLI Sample # SW 6147114
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 10:45

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-52 SDG#: DE020-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:29	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:29	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:29	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 10:54	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201A	12/08/2010 14:11	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201A	12/08/2010 14:11	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10336336202A	12/06/2010 19:22	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010 14:37	William L Hamaker Jr	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10337102201A	12/03/2010 18:23	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10341341201A	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10336336202A	12/02/2010 13:45	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10337102201A	12/03/2010 10:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10327182105A	11/23/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10327039408A	11/23/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010 11:42	William C Schwebel	1

Sample Description: SL-042-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5C-SS-0.0-0.5

LLI Sample # SW 6147115
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 14:30

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-42 SDG#: DE020-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U 170	520	1
04688	Benizidine	92-87-5	1,200	U 1,200	3,500	1
04688	Benzo(a)pyrene	50-32-8	69	J 17	170	1
04688	Benzo(g,h,i)perylene	191-24-2	95	J 17	170	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	Chrysene	218-01-9	22	J 17	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	bis(2-Ethylhexyl)phthalate	117-81-7	170	J 17	350	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

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

Sample Description: SL-042-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5C-SS-0.0-0.5

LLI Sample # SW 6147115
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 14:30

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-42 SDG#: DE020-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
	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
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	
10138	Acenaphthene	83-32-9	0.70	U 0.70	1.7	1
10138	Acenaphthylene	208-96-8	1.2	J 0.35	1.7	1
10138	Anthracene	120-12-7	0.51	J 0.35	1.7	1
10138	Benzo(a)anthracene	56-55-3	3.0	0.70	1.7	1
10138	Benzo(b)fluoranthene	205-99-2	7.2	0.70	1.7	1
10138	Benzo(k)fluoranthene	207-08-9	11	0.70	1.7	1
10138	Butylbenzylphthalate	85-68-7	9.0	J 6.3	19	1
10138	Di-n-butylphthalate	84-74-2	6.3	U 6.3	19	1
10138	Dibenz(a,h)anthracene	53-70-3	5.5	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	Fluoranthene	206-44-0	2.9	0.70	1.7	1
10138	Fluorene	86-73-7	1.1	J 0.70	1.7	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	6.1	0.70	1.7	1
10138	1-Methylnaphthalene	90-12-0	0.84	J 0.70	1.7	1
10138	2-Methylnaphthalene	91-57-6	0.88	J 0.70	1.7	1
10138	Naphthalene	91-20-3	1.1	J 0.70	1.7	1
10138	N-Nitrosodimethylamine	62-75-9	1.2	J 0.70	1.7	1
10138	Di-n-octylphthalate	117-84-0	6.3	U 6.3	19	1
10138	Phenanthrene	85-01-8	1.6	J 0.70	1.7	1
10138	Pyrene	129-00-0	7.5	0.70	1.7	1
The GC/MS semivolatile surrogate recoveries were outside of QC limits. The matrix spike and matrix spike duplicate samples were analyzed and surrogate recoveries were again outside of QC limits, indicating a matrix effect.						
The GC/MS semivolatile internal standard peak areas were outside of QC limits. The matrix spike and matrix spike duplicate samples were analyzed and internal standard peak areas were again outside of QC limits, indicating a matrix effect.						
Herbicides	SW-846 8151A		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	4.6	U 4.6	9.4	1
10401	2,4-DB	94-82-6	4.1	0.65	1.8	1
10401	Dicamba	1918-00-9	0.42	U 0.42	1.3	1
10401	Dinoseb	88-85-7	0.84	U 0.84	2.5	1
10401	2,4-DP (Dichlorprop)	120-36-5	0.84	U 0.84	1.8	1
10401	MCPA	94-74-6	600	79	260	1
10401	MCPP (Mecoprop)	93-65-2	82	U 82	260	1

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

Sample Description: SL-042-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5C-SS-0.0-0.5

LLI Sample # SW 6147115
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 14:30

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-42 SDG#: DE020-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Herbicides						
	SW-846 8151A		ug/kg	ug/kg	ug/kg	
10401	2,4,5-T	93-76-5	0.086 U	0.086	0.18	1
10401	2,4,5-TP	93-72-1	0.078 U	0.078	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.						
Due to interfering peaks on the chromatogram, the values reported for MCPP represent the lowest reporting limits attainable.						
Pesticides/PCBs						
	SW-846 8081A		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	0.035 U	0.035	0.17	1
01363	Beta BHC	319-85-7	0.063 U	0.063	0.17	1
01363	Gamma BHC - Lindane	58-89-9	0.035 U	0.035	0.17	1
01363	Chlordane	57-74-9	4.5 U	4.5	4.5	1
01363	p,p-DDD	72-54-8	0.47 U	0.47	0.47	1
01363	p,p-DDE	72-55-9	1.0 U	1.0	1.0	1
01363	p,p-DDT	50-29-3	7.5 U	7.5	7.5	5
01363	Delta BHC	319-86-8	0.038 U	0.038	0.17	1
01363	Dieldrin	60-57-1	0.38 U	0.38	0.38	1
01363	Endosulfan I	959-98-8	0.046 U	0.046	0.17	1
01363	Endosulfan II	33213-65-9	0.10 U	0.10	0.35	1
01363	Endosulfan Sulfate	1031-07-8	0.27 U	0.27	0.35	1
01363	Endrin	72-20-8	0.069 U	0.069	0.35	1
01363	Endrin Aldehyde	7421-93-4	0.069 U	0.069	0.35	1
01363	Endrin Ketone	53494-70-5	0.31 U	0.31	0.35	1
01363	Heptachlor	76-44-8	0.063 U	0.063	0.17	1
01363	Heptachlor Epoxide	1024-57-3	0.035 U	0.035	0.17	1
01363	Methoxychlor	72-43-5	0.35 U	0.35	1.7	1
01363	Mirex	2385-85-5	0.069 U	0.069	0.35	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.						
Due to the nature of the sample extract matrix and interference from PCBs, a dilution was used for the analysis.						
The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.						
Pesticides/PCBs						
	SW-846 8082		ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	5.2 U	5.2	17	5
10225	Aroclor 5442	12642-23-8	5.2 U	5.2	17	5
10225	Aroclor 5460	11126-42-4	37	5.2	17	5
10225	PCB-1016	12674-11-2	1.7 U	1.7	8.9	5
10225	PCB-1221	11104-28-2	2.6 U	2.6	8.9	5
10225	PCB-1232	11141-16-5	2.7 U	2.7	8.9	5
10225	PCB-1242	53469-21-9	2.6 U	2.6	8.9	5
10225	PCB-1248	12672-29-6	1.7 U	1.7	8.9	5

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

Sample Description: SL-042-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5C-SS-0.0-0.5

LLI Sample # SW 6147115
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 14:30

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-42 SDG#: DE020-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs						
	SW-846 8082		ug/kg	ug/kg	ug/kg	
10225	PCB-1254	11097-69-1	13	1.7	8.9	5
10225	PCB-1260	11096-82-5	12	1.7	8.9	5
10225	PCB-1262	37324-23-5	1.7 U	1.7	8.9	5
10225	PCB-1268	11100-14-4	1.7 U	1.7	8.9	5
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,600	5.20	20.7	1
07914	Boron	7440-42-8	2.55 J	0.920	5.17	1
01650	Calcium	7440-70-2	3,510	6.34	20.7	1
01654	Iron	7439-89-6	18,400	4.87	20.7	1
01656	Lithium	7439-93-2	22.9	0.23	2.1	1
01657	Magnesium	7439-95-4	4,670	2.63	10.3	1
06958	Manganese	7439-96-5	259	0.0806	0.517	1
10145	Phosphorus	7723-14-0	405	0.579	10.3	1
01662	Potassium	7440-09-7	3,140	18.6	51.7	1
01667	Sodium	7440-23-5	82.7 J	38.5	103	1
07968	Strontium	7440-24-6	14.5	0.0641	0.517	1
06969	Tin	7440-31-5	2.12 J	1.03	10.3	1
06970	Titanium	7440-32-6	1,220	1.96	5.17	5
10146	Zirconium	7440-67-7	3.91 J	0.868	5.17	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.169 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	4.18	0.0626	0.418	2
06126	Barium	7440-39-3	105	0.113	0.418	2
06127	Beryllium	7440-41-7	0.441	0.0167	0.104	2
06128	Cadmium	7440-43-9	0.191	0.0376	0.104	2
06131	Chromium	7440-47-3	20.1	0.125	0.418	2
06132	Cobalt	7440-48-4	5.76	0.0209	0.104	2
06133	Copper	7440-50-8	9.10	0.0689	0.418	2
06135	Lead	7439-92-1	23.8	0.0109	0.209	2
06138	Molybdenum	7439-98-7	0.446	0.0522	0.104	2
06139	Nickel	7440-02-0	13.2	0.104	0.418	2
06141	Selenium	7782-49-2	0.124 J	0.0418	0.418	2
06142	Silver	7440-22-4	0.0353 J	0.0125	0.104	2
06145	Thallium	7440-28-0	0.218	0.0313	0.104	2
06148	Vanadium	7440-62-2	35.6	0.0230	0.104	2
06149	Zinc	7440-66-6	72.5	0.585	3.13	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0072 J	0.0029	0.102	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.8	0.84	1.0	1

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

Sample Description: SL-042-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5C-SS-0.0-0.5

LLI Sample # SW 6147115
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 14:30

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-42 SDG#: DE020-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.4 U	9.4	31.3	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	1.2	0.21	1.0	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	452	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.19	0.0100	0.0100	1
Wet Chemistry		EPA 160.3 modified	%	%	%	
11624	28a Total Solids by 160.3	n.a.	4.2	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	10330SLB026	12/03/2010 03:54	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10335SLE026	12/06/2010 06:26	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
10401	13a Herbicides by EPA 8151	SW-846 8151A	1	103340001A	12/01/2010 20:06	John W Perkins	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103280011A	11/28/2010 06:07	Jamie L Brillhart	1
01363	12a Pesticides by 8081A	SW-846 8081A	1	103280011A	12/01/2010 00:39	Jamie L Brillhart	5
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103260008A	12/02/2010 15:34	Lindsey K Lafferty	5
11134	Pesticide Screen Soils Ext	SW-846 3550B	1	103280011A	11/25/2010 03:30	David V Hershey Jr	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103260008A	11/22/2010 13:30	Wanda F Oswald	1

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

Sample Description: SL-042-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5C-SS-0.0-0.5

LLI Sample # SW 6147115
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 14:30

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-42 SDG#: DE020-03

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	103340001A	11/30/2010 20:30	Elaine F Stoltzfus	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:09	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:09	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:09	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 03:09	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 20:20	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:09	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:09	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:09	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 20:20	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:09	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:09	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:09	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 20:23	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 20:20	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 14:32	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:32	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:32	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:32	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 10:55	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10337337202A	12/06/2010 17:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10336336202A	12/06/2010 19:46	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10340243201A	12/07/2010 14:58	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10337337202A	12/03/2010 13:25	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10336336202A	12/02/2010 13:45	Nancy J Shoop	1

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

Sample Description: SL-042-SA5C-SS-0.0-0.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-042-SA5C-SS-0.0-0.5

LLI Sample # SW 6147115
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 14:30

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

SL-42 SDG#: DE020-03

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	10327182105A	11/23/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10327039408A	11/23/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	William C Schwebel	1

Sample Description: TB-111910 Water
SSFL Area IV Collocated Soil Sampling
TB-111910

LLI Sample # WW 6147116
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 16:30

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

S42TB SDG#: DE020-04TB*

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

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

Sample Description: TB-111910 Water
SSFL Area IV Collocated Soil Sampling
TB-111910

LLI Sample # WW 6147116
LLI Group # 1222291
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/19/2010 16:30

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

Submitted: 11/20/2010 09:15

Reported: 01/04/2011 09:34

S42TB SDG#: DE020-04TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
GC	Volatiles	TPH GRO SW-8015B	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	Y103263AA	11/22/2010 07:45	Holly Berry	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103281AA	11/24/2010 11:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y103263AA	11/22/2010 07:45	Holly Berry	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	E103281AA	11/24/2010 11:43	Jason M Long	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10333B20A	11/29/2010 18:22	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10333B20A	11/29/2010 18:22	Tyler O Griffin	1

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

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: B103191AB Sample number(s): 6147113-6147114									
Acetone	6.7 U	6.7	8.0	ug/kg	125		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	98		79-120		
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	133*		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	91		70-120		
Bromomethane	0.25 U	0.25	4.0	ug/kg	73		32-162		
2-Butanone	1.2 U	1.2	8.0	ug/kg	99		46-153		
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	100		72-120		
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	102		75-120		
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	93		75-120		
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	89		69-122		
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	98		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	84		43-146		
Chloroform	0.12 U	0.12	4.0	ug/kg	97		80-120		
Chloromethane	0.33 U	0.33	4.0	ug/kg	85		54-132		
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	98		78-120		
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	99		79-120		
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	104		22-131		
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	95		58-120		
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	94		77-120		
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	94		80-120		
Dibromomethane	0.24 U	0.24	4.0	ug/kg	96		80-120		
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	98		78-120		
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	98		79-120		
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	71		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	96		71-129		
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	92		73-123		
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	96		80-120		
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	86		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	98		80-120		
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	78		72-123		
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	97		77-120		
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	89		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	98		80-120		
Freon 113	0.11 U	0.11	4.0	ug/kg	96		61-126		
Freon 133a	0.50 U	0.50	5.0	ug/kg	84		78-120		
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	99		57-120		
2-Hexanone	1.6 U	1.6	8.0	ug/kg	90		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	100		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: 01/04/11 at 09:34 AM

Group Number: 1222291

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	83		74-121		
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	93		61-134		
Methylene Chloride	0.24 U	0.24	4.0	ug/kg	85		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	106		77-120		
Styrene	0.10 U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	93		80-120		
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	101		71-123		
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	94		77-120		
Toluene	0.10 J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	96		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	93		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	86		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	95		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	79		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	98		71-128		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	100		79-120		
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	99		78-120		
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	82		53-120		
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	95		80-120		
o-Xylene	0.17 U	0.17	4.0	ug/kg	92		80-120		
Batch number: E103281AA	Sample number(s): 6147116								
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	91	100	60-132	9	30
Batch number: E103282AA	Sample number(s): 6147113-6147114								
1,4-Dioxane	5.0 U	5.0	15	ug/kg	98	97	70-130	1	30
Batch number: Y103263AA	Sample number(s): 6147116								
Acetone	6 U	6.	20	ug/l	192	193	49-234	1	30
Benzene	0.5 U	0.5	5	ug/l	95	94	79-120	2	30
Bromobenzene	1 U	1.	5	ug/l	105	105	80-120	0	30
Bromochloromethane	1 U	1.	5	ug/l	93	90	80-120	3	30
Bromodichloromethane	1 U	1.	5	ug/l	91	89	80-120	2	30
Bromoform	1 U	1.	5	ug/l	90	99	61-120	10	30
Bromomethane	1 U	1.	5	ug/l	94	91	44-120	2	30
2-Butanone	3 U	3.	10	ug/l	119	118	66-151	1	30
n-Butylbenzene	1 U	1.	5	ug/l	100	99	74-120	1	30
sec-Butylbenzene	1 U	1.	5	ug/l	107	107	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	100	99	80-120	2	30
Carbon Tetrachloride	1 U	1.	5	ug/l	93	90	75-123	3	30
Chlorobenzene	0.8 U	0.8	5	ug/l	96	94	80-120	2	30
Chloroethane	1 U	1.	5	ug/l	95	90	49-129	6	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	107	107	56-129	1	30
Chloroform	0.8 U	0.8	5	ug/l	96	94	77-122	2	30
Chloromethane	1 U	1.	5	ug/l	91	87	60-129	4	30
2-Chlorotoluene	1 U	1.	5	ug/l	107	103	80-120	4	30
4-Chlorotoluene	1 U	1.	5	ug/l	100	97	80-120	3	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	119	112	38-136	6	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	112	108	66-120	3	30
Dibromochloromethane	1 U	1.	5	ug/l	94	92	80-120	2	30
1,2-Dibromoethane	1 U	1.	5	ug/l	101	99	80-120	2	30
Dibromomethane	1 U	1.	5	ug/l	96	92	80-120	4	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	97	95	80-120	2	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	70	68	47-120	2	30
1,1-Dichloroethane	1 U	1.	5	ug/l	98	96	79-120	2	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1 U	1.	5	ug/l	93	91	70-130	2	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	107	106	74-123	1	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	97	95	80-120	2	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	97	94	80-120	3	30
1,2-Dichloropropane	1 U	1.	5	ug/l	94	92	78-120	2	30
1,3-Dichloropropane	1 U	1.	5	ug/l	99	98	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	86	84	77-124	2	30
1,1-Dichloropropene	1 U	1.	5	ug/l	95	94	80-120	1	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	87	85	80-120	2	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	90	89	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	98	96	79-120	2	30
Freon 113	2 U	2.	10	ug/l	113	114	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	101	93	77-120	8	30
Hexachlorobutadiene	2 U	2.	5	ug/l	98	95	58-120	3	30
2-Hexanone	3 U	3.	10	ug/l	116	114	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	97	95	77-120	2	30
p-Isopropyltoluene	1 U	1.	5	ug/l	106	103	80-120	3	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	96	94	76-120	1	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	98	93	70-121	5	30
Methylene Chloride	2 U	2.	5	ug/l	86	82	80-120	5	30
n-Propylbenzene	1 U	1.	5	ug/l	110	108	80-120	2	30
Styrene	1 U	1.	5	ug/l	98	107	80-120	8	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	97	94	80-120	3	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	110	109	71-120	1	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	96	94	80-121	2	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	100	99	65-120	1	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	99	98	67-120	1	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	95	94	75-127	1	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	99	97	80-120	3	30
Trichloroethene	1 U	1.	5	ug/l	94	91	80-120	4	30
Trichlorofluoromethane	2 U	2.	5	ug/l	94	92	64-129	1	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	111	109	80-120	2	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	106	106	74-120	0	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	105	102	75-120	3	30
Vinyl Chloride	1 U	1.	5	ug/l	83	82	65-125	0	30
m+p-Xylene	0.8 U	0.8	5	ug/l	93	92	80-120	1	30
o-Xylene	0.8 U	0.8	5	ug/l	95	92	80-120	3	30

Batch number: 10330SLB026

Sample number(s): 6147113-6147115

Aniline	170 U	170.	500	ug/kg	73	10-107
Benzidine	1,200 U	1,200.	3,300	ug/kg	49	15-121
Benzo(a)pyrene	17 U	17.	170	ug/kg	112	69-122
Benzo(g,h,i)perylene	17 U	17.	170	ug/kg	115	65-122
Benzoic acid	170 U	170.	500	ug/kg	82	10-154
Benzyl alcohol	170 U	170.	500	ug/kg	90	68-111
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	88	79-117
Carbazole	17 U	17.	170	ug/kg	92	77-113
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	93	74-119
4-Chloroaniline	67 U	67.	170	ug/kg	55	10-110
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	87	70-118
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	81	70-104
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	80	68-131
2-Chloronaphthalene	17 U	17.	170	ug/kg	90	67-127

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
2-Chlorophenol	17 U	17.	170	ug/kg	87		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	94		79-110		
Chrysene	17 U	17.	170	ug/kg	92		76-113		
Dibenzofuran	17 U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	82		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	73		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	91		75-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	118		70-130		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	76		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	93		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	91		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	89		77-111		
bis(2-Ethylhexyl)phthalate	17 U	17.	330	ug/kg	93		75-117		
Hexachlorobenzene	17 U	17.	170	ug/kg	90		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	86		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	80		68-105		
Isophorone	17 U	17.	170	ug/kg	85		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	86		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	87		66-117		
2-Nitroaniline	17 U	17.	170	ug/kg	92		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	85		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	86		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	82		56-118		
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	81		63-107		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	92		67-141		
Pentachlorophenol	170 U	170.	500	ug/kg	87		35-106		
Phenol	17 U	17.	170	ug/kg	85		58-112		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	86		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	95		78-111		
Batch number: 10333SLB026	Sample number(s): 6147113-6147114								
Acenaphthene	0.67 U	0.67	1.7	ug/kg	80		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	78		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	81		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	88		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	116		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	98		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	87		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	90		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	89		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	88		68-125		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Dimethylphthalate	6.0 U	6.0	18	ug/kg	89		70-130		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	87		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	89		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	83		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	74		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	77		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	72		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	109		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	85		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	87		56-121		

Batch number: 10333SLD026
N-Nitrosodimethylamine

Sample number(s): 6147114
32.8 J 16.7 33.3

ng/kg 97 70-130

Batch number: 10335SLE026

Sample number(s): 6147115

Acenaphthene	0.67 U	0.67	1.7	ug/kg	89		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	85		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	88		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	90		74-120		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	102		63-143		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	89		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	90		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	103		84-132		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	79		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	94		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	95		70-130		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	92		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	82		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	79		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	80		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	96		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	88		56-121		

Batch number: 10326A34A
9a TPH by EPA 8015B Gas

Sample number(s): 6147114
0.2 U 0.2 1.0

mg/kg 72 71 67-119 1 30

Batch number: 10333B20A
TPH-GRO S.CA water C5-C12

Sample number(s): 6147116
20 U 20. 50

ug/l 109 109 75-135 0 30

Batch number: 103270005A
4-Amino-2,6-Dinitrotoluene
2-Amino-4,6-Dinitrotoluene
2,6-Diamino-4-nitrotoluene

Sample number(s): 6147114
75 U 75. 150
50 U 50. 150
100 U 100. 300

U				ug/kg	106		80-120		
2,4-Diamino-6-nitrotoluene	100 U	100.	300	ug/kg	101	91	54-134	10	30
1,3-Dinitrobenzene	50 U	50.	150	ug/kg	107		51-171		
2,4-Dinitrotoluene	50 U	50.	150	ug/kg	106		72-135		
2,6-Dinitrotoluene	50 U	50.	150	ug/kg	110		80-120		
HMX	130 U	130.	380	ug/kg	98		74-130		

Nitrobenzene 50 U 50. 150 ug/kg 103 80-120
Nitroglycerin 1,000 1,000. 3,000 ug/kg 93 80-120

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

<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-Nitrotoluene	U 100	100.	150	ug/kg	111		78-128		
3-Nitrotoluene	U 130	130.	150	ug/kg	108		73-127		
4-Nitrotoluene	U 100	100.	150	ug/kg	107		80-120		
PETN	U 1,000	1,000.	3,000	ug/kg	106		80-120		
RDX	U 63	63.	150	ug/kg	104		75-131		
Tetryl	U 77	77.	150	ug/kg	122		70-168		
1,3,5-Trinitrobenzene	U 50	50.	150	ug/kg	118		77-137		
2,4,6-Trinitrotoluene	U 50	50.	150	ug/kg	108		80-120		
Batch number: 103300006A	Sample number(s): 6147114								
17a Formaldehyde by 8315A	U 600	600.	1,500	ug/kg	103		80-126		
Batch number: 103340001A	Sample number(s): 6147115								
2,4-D	U 1.2	1.2	3.6	ug/kg	130		40-140		
Dalapon	U 4.4	4.4	9.0	ug/kg	67		24-89		
2,4-DB	U 0.62	0.62	1.7	ug/kg	107		34-138		
Dicamba	U 0.40	0.40	1.2	ug/kg	81		20-164		
Dinoseb	U 0.80	0.80	2.4	ug/kg	5*		10-36		
2,4-DP (Dichlorprop)	U 0.80	0.80	1.7	ug/kg	114		60-141		
MCPA	U 76	76.	250	ug/kg	106		34-113		
MCPP (Mecoprop)	J 91	75.	250	ug/kg	103		29-154		
2,4,5-T	U 0.082	0.082	0.17	ug/kg	114		33-145		
2,4,5-TP	U 0.075	0.075	0.17	ug/kg	92		48-138		
Batch number: 103330019A	Sample number(s): 6147113								
6a Perchlorate EPA 6850	U 2.1	2.1	5.0	ug/kg	96		70-130		
Batch number: 103260008A	Sample number(s): 6147113-6147115								
Aroclor 5432	U 1.0	1.0	3.3	ug/kg					
Aroclor 5442	U 1.0	1.0	3.3	ug/kg	98	88	75-125	11	30
Aroclor 5460	U 1.0	1.0	3.3	ug/kg					
PCB-1016	U 0.33	0.33	1.7	ug/kg	100		72-120		
PCB-1221	U 0.50	0.50	1.7	ug/kg					
PCB-1232	U 0.52	0.52	1.7	ug/kg					
PCB-1242	U 0.50	0.50	1.7	ug/kg					
PCB-1248	U 0.33	0.33	1.7	ug/kg					
PCB-1254	U 0.33	0.33	1.7	ug/kg					
PCB-1260	U 0.33	0.33	1.7	ug/kg	124		65-137		
PCB-1262	U 0.33	0.33	1.7	ug/kg					
PCB-1268	U 0.33	0.33	1.7	ug/kg					
Batch number: 103280011A	Sample number(s): 6147115								
Aldrin	U 0.066	0.066	0.17	ug/kg	94		44-135		
Alpha BHC	U 0.034	0.034	0.17	ug/kg	109		38-130		
Beta BHC	U 0.060	0.060	0.17	ug/kg	91		56-134		
Gamma BHC - Lindane	U 0.034	0.034	0.17	ug/kg	109		46-127		
Chlordane	U 0.80	0.80	3.4	ug/kg					
p,p-DDD	U 0.066	0.066	0.34	ug/kg	149*		60-137		
p,p-DDE	U 0.066	0.066	0.34	ug/kg	110		59-141		
p,p-DDT	U 0.066	0.066	0.34	ug/kg	134*		54-130		
Delta BHC	U 0.036	0.036	0.17	ug/kg	97		55-144		
Dieldrin	U 0.066	0.066	0.34	ug/kg	132*		65-129		

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

<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>
Endosulfan I	0.044 U	0.044	0.17	ug/kg	112		45-123		
Endosulfan II	0.066 U	0.066	0.34	ug/kg	97		63-127		
Endosulfan Sulfate	0.066 U	0.066	0.34	ug/kg	110		72-138		
Endrin	0.066 U	0.066	0.34	ug/kg	129		62-129		
Endrin Aldehyde	0.066 U	0.066	0.34	ug/kg	105		55-132		
Endrin Ketone	0.066 U	0.066	0.34	ug/kg	110		69-139		
Heptachlor	0.060 U	0.060	0.17	ug/kg	142*		43-124		
Heptachlor Epoxide	0.034 U	0.034	0.17	ug/kg	100		65-131		
Methoxychlor	0.34 U	0.34	1.7	ug/kg	133*		59-125		
Mirex	0.066 U	0.066	0.34	ug/kg					
Toxaphene	2.2 U	2.2	6.6	ug/kg					

Batch number: 103260038A

Sample number(s): 6147114

EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	90		66-113		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	94		66-113		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	93		66-113		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	82		66-113		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	69		66-113		

Batch number: 103270004A

Sample number(s): 6147114

Ethanol	100 U	100.	500	ug/kg	112		75-112		
Isopropanol	100 U	100.	500	ug/kg	106		75-125		
Methanol	100 U	100.	500	ug/kg	121		75-134		

Batch number: 103350011A

Sample number(s): 6147114

Diethylene glycol	5.0 U	5.0	13	mg/kg	97		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	105		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	96		75-125		

Batch number: 103260011A

Sample number(s): 6147114

m-Terphenyl	1.5 U	1.5	3.5	mg/kg	99	99	75-125	0	20
o-Terphenyl	1.5 U	1.5	3.5	mg/kg	102	102	75-125	0	20
p-Terphenyl	1.5 U	1.5	3.5	mg/kg	99	98	75-125	1	20

Batch number: 10328002

Sample number(s): 6147114

1,1-Dimethylhydrazine	2.0 U	2.0	5.0	ng/g	80	78	70-130	2	30
Hydrazine	0.50 U	0.50	2.0	ng/g	86	80	70-130	8	30
Methylhydrazine	2.0 U	2.0	5.0	ng/g	87	89	70-130	3	30

Batch number: 103281026001A

Sample number(s): 6147113-6147115

Antimony	0.0659 J	0.0600	0.200	mg/kg	97		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	98		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	110		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	109		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.200 J	0.0660	0.400	mg/kg	100		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	103		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	109		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	110		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	111		78-122		

Batch number: 103281026001B

Sample number(s): 6147113-6147115

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Selenium	0.0400 U	0.0400	0.400	mg/kg	109		79-122		
Batch number: 103281026001C	Sample number(s): 6147113-6147115								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	118		78-122		
Batch number: 103281026001D	Sample number(s): 6147113-6147115								
Barium	0.108 U	0.108	0.400	mg/kg	104		79-121		
Batch number: 103285708005	Sample number(s): 6147113-6147115								
Aluminum	5.03 U	5.03	20.0	mg/kg	95		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	93		78-110		
Calcium	10.2 J	6.13	20.0	mg/kg	100		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	92		61-110		
Lithium	0.35 J	0.22	2.0	mg/kg	98		80-120		
Magnesium	9.32 J	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	1.33 J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	93		78-110		
Sodium	37.3 U	37.3	100	mg/kg	99		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	108		79-121		
Tin	1.14 J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	90		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	106		80-120		
Batch number: 103285711001	Sample number(s): 6147113-6147115								
Mercury	0.0028 U	0.0028	0.0967	mg/kg	99		88-123		
Batch number: 10336336202A	Sample number(s): 6147113-6147115								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	99		85-115		
Batch number: 10337102201A	Sample number(s): 6147114								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	105		80-120		
Batch number: 10337337202A	Sample number(s): 6147113, 6147115								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	103		90-110		
Batch number: 10340243201A	Sample number(s): 6147113-6147115								
3a Cr VI by EPA 7199	0.20 U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10341341201A	Sample number(s): 6147114								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	100		90-110		
Batch number: 10327039408A	Sample number(s): 6147113-6147115								
22a pH by 9045C					101		95-105		
Batch number: 10327182105A	Sample number(s): 6147113-6147115								
Oxidation Reduction Potential					99		98-102		
Batch number: 10334162401A	Sample number(s): 6147113, 6147115								
28a Total Solids by 160.3					100		80-120		
Batch number: 10342162401A	Sample number(s): 6147114								
28a Total Solids by 160.3					100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103191AB Sample number(s): 6147113-6147114 UNSPK: P137487									
Acetone	95	98	15-210	1	30				
Benzene	108	104	55-143	6	30				
Bromobenzene	105	102	43-139	7	30				
Bromochloromethane	139*	139*	60-137	3	30				
Bromodichloromethane	98	95	53-136	6	30				
Bromoform	87	81	38-124	9	30				
Bromomethane	67	64	42-168	7	30				
2-Butanone	86	83	37-163	7	30				
n-Butylbenzene	104	96	30-146	11	30				
sec-Butylbenzene	110	103	33-157	10	30				
tert-Butylbenzene	103	97	41-152	9	30				
Carbon Tetrachloride	98	93	45-153	8	30				
Chlorobenzene	104	98	49-135	9	30				
Chloroethane	65	62	39-152	8	30				
2-Chloroethyl Vinyl Ether	89	89	32-139	3	30				
Chloroform	105	101	61-142	7	30				
Chloromethane	70	75	51-163	4	30				
2-Chlorotoluene	104	100	42-146	8	30				
4-Chlorotoluene	105	98	39-145	10	30				
Chlorotrifluoroethene	138*	136*	70-130	4	30				
1,2-Dibromo-3-chloropropane	78	75	30-139	8	30				
Dibromochloromethane	93	89	51-128	7	30				
1,2-Dibromoethane	96	92	54-129	7	30				
Dibromomethane	101	98	57-130	6	30				
1,2-Dichlorobenzene	102	96	36-133	9	30				
1,3-Dichlorobenzene	103	98	34-134	9	30				
1,4-Dichlorobenzene	103	97	35-136	9	30				
Dichlorodifluoromethane	55	55	26-151	4	30				
1,1-Dichloroethane	102	100	63-142	5	30				
1,2-Dichloroethane	95	92	68-131	6	30				
1,1-Dichloroethene	107	103	61-149	6	30				
cis-1,2-Dichloroethene	106	103	60-136	6	30				
trans-1,2-Dichloroethene	99	95	59-142	6	30				
1,2-Dichloropropane	101	99	62-135	6	30				
1,3-Dichloropropane	97	94	58-129	6	30				
2,2-Dichloropropane	85	82	53-147	6	30				
1,1-Dichloropropene	106	103	54-145	6	30				
cis-1,3-Dichloropropene	94	91	51-131	6	30				
trans-1,3-Dichloropropene	82	80	49-129	6	30				
Ethylbenzene	104	98	44-141	8	30				
Freon 113	118	113	56-156	7	30				
Freon 133a	96	95	70-130	4	30				
Hexachlorobutadiene	110	98	10-155	14	30				
2-Hexanone	81	79	32-160	5	30				
Isopropylbenzene	104	96	38-144	10	30				
p-Isopropyltoluene	107	99	29-152	10	30				
Methyl Tertiary Butyl Ether	87	85	55-129	5	30				
4-Methyl-2-pentanone	85	81	46-139	7	30				
Methylene Chloride	94	95	61-141	1	30				
n-Propylbenzene	109	103	39-157	9	30				
Styrene	100	95	35-134	8	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,1,1,2-Tetrachloroethane	94	90	52-130	8	30				
1,1,2,2-Tetrachloroethane	94	92	40-152	6	30				
Tetrachloroethene	105	101	42-149	7	30				
Toluene	103	98	50-146	7	30				
1,2,3-Trichlorobenzene	97	92	10-140	9	30				
1,2,4-Trichlorobenzene	97	90	10-136	11	30				
1,1,1-Trichloroethane	97	94	64-142	6	30				
1,1,2-Trichloroethane	96	92	54-139	7	30				
Trichloroethene	107	103	53-144	7	30				
Trichlorofluoromethane	91	90	47-163	5	30				
1,2,3-Trichloropropane	95	91	45-154	7	30				
1,2,4-Trimethylbenzene	104	99	37-149	8	30				
1,3,5-Trimethylbenzene	105	98	38-150	10	30				
Vinyl Chloride	76	76	50-154	3	30				
m+p-Xylene	102	96	44-137	9	30				
o-Xylene	99	94	42-137	8	30				
Batch number: 10330SLB026 Sample number(s): 6147113-6147115 UNSPK: P149366									
Aniline	52	65	14-114	21	30				
Benzidine	28*	35	35-141	23	30				
Benzo(a)pyrene	110	110	57-126	0	30				
Benzo(g,h,i)perylene	116	103	59-127	12	30				
Benzoic acid	36	51	10-173	33*	30				
Benzyl alcohol	82	88	55-123	7	30				
4-Bromophenyl-phenylether	94	90	67-129	4	30				
Carbazole	91	89	64-120	2	30				
4-Chloro-3-methylphenol	82	92	53-130	12	30				
4-Chloroaniline	43	45	23-95	3	30				
bis(2-Chloroethoxy)methane	84	84	54-117	0	30				
bis(2-Chloroethyl)ether	79	79	60-116	1	30				
bis(2-Chloroisopropyl)ether	75	72	55-142	4	30				
2-Chloronaphthalene	91	86	50-141	5	30				
2-Chlorophenol	84	88	73-121	4	30				
4-Chlorophenyl-phenylether	92	96	64-119	5	30				
Chrysene	92	90	62-128	3	30				
Dibenzofuran	91	92	71-112	2	30				
1,2-Dichlorobenzene	84	81	66-108	3	30				
1,3-Dichlorobenzene	83	79	63-109	4	30				
1,4-Dichlorobenzene	84	83	53-113	2	30				
3,3'-Dichlorobenzidine	82	58	25-123	33*	30				
2,4-Dichlorophenol	89	94	78-117	6	30				
2,4-Dimethylphenol	86	89	56-130	4	30				
3,5-Dimethylphenol	106	113	70-130	6	30				
4,6-Dinitro-2-methylphenol	29	78	10-148	91*	30				
2,4-Dinitrophenol	23	56	20-143	84*	30				
2,4-Dinitrotoluene	78	92	57-114	16	30				
2,6-Dinitrotoluene	83	92	69-123	11	30				
1,2-Diphenylhydrazine	91	85	71-129	7	30				
bis(2-Ethylhexyl)phthalate	100	97	63-122	3	30				
Hexachlorobenzene	97	91	61-111	6	30				
Hexachlorobutadiene	93	86	62-120	8	30				
Hexachlorocyclopentadiene	23	86	10-153	117*	30				
Hexachloroethane	67	80	57-109	17	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Isophorone	83	82	51-118	0	30				
2-Methylphenol	79	85	47-142	7	30				
4-Methylphenol	76	84	55-126	11	30				
2-Nitroaniline	92	91	67-125	1	30				
3-Nitroaniline	90	88	59-122	2	30				
4-Nitroaniline	76	68	52-112	10	30				
Nitrobenzene	85	83	51-114	3	30				
2-Nitrophenol	84	89	74-115	5	30				
4-Nitrophenol	74	79	39-133	6	30				
N-Nitroso-di-n-propylamine	75	77	60-116	3	30				
N-Nitrosodiphenylamine	97	91	86-145	7	30				
Pentachlorophenol	87	81	17-149	7	30				
Phenol	74	79	58-126	6	30				
1,2,4-Trichlorobenzene	92	89	72-115	4	30				
2,4,5-Trichlorophenol	92	94	34-139	2	30				
2,4,6-Trichlorophenol	97	94	49-140	2	30				
Batch number: 10333SLB026 Sample number(s): 6147113-6147114 UNSPK: P148497									
Acenaphthene	80	80	63-105	1	30				
Acenaphthylene	83	82	55-126	2	30				
Anthracene	83	83	46-136	0	30				
Benzo(a)anthracene	89	91	39-144	2	30				
Benzo(a)pyrene	99	100	34-156	1	30				
Benzo(b)fluoranthene	108	109	43-155	1	30				
Benzo(g,h,i)perylene	59	57	33-141	3	30				
Benzo(k)fluoranthene	106	108	42-144	2	30				
Butylbenzylphthalate	89	89	73-140	0	30				
Di-n-butylphthalate	101	98	78-160	3	30				
Chrysene	88	89	29-156	1	30				
Dibenz(a,h)anthracene	69	67	41-130	3	30				
Diethylphthalate	94	92	87-131	2	30				
Dimethylphthalate	94	93	74-118	1	30				
Fluoranthene	91	92	26-166	1	30				
Fluorene	88	87	45-121	0	30				
Indeno(1,2,3-cd)pyrene	67	66	21-143	2	30				
1-Methylnaphthalene	88	87	72-123	1	30				
2-Methylnaphthalene	77	76	28-121	1	30				
Naphthalene	84	80	61-102	5	30				
N-Nitrosodimethylamine	-6*	-11*	48-113	19	30				
Di-n-octylphthalate	116	118	40-192	1	30				
Phenanthrene	81	83	12-165	2	30				
Pyrene	78	81	15-153	4	30				
Batch number: 10333SLD026 Sample number(s): 6147114 UNSPK: P144599									
N-Nitrosodimethylamine	100	105	70-130	5	30				
Batch number: 10335SLE026 Sample number(s): 6147115 UNSPK: 6147115									
Acenaphthene	83	80	63-105	3	30				
Acenaphthylene	82	79	55-126	3	30				
Anthracene	84	81	46-136	4	30				
Benzo(a)anthracene	93	82	39-144	11	30				
Benzo(b)fluoranthene	140	136	43-155	2	30				
Benzo(k)fluoranthene	109	98	42-144	8	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Butylbenzylphthalate	146*	145*	73-140	1	30				
Di-n-butylphthalate	109	100	78-160	8	30				
Dibenz(a,h)anthracene	34*	37*	41-130	7	30				
Diethylphthalate	107	82*	87-131	26	30				
Dimethylphthalate	96	89	74-118	8	30				
Fluoranthene	71	56	26-166	20	30				
Fluorene	86	82	45-121	5	30				
Indeno(1,2,3-cd)pyrene	33	36	21-143	7	30				
1-Methylnaphthalene	87	87	72-123	0	30				
2-Methylnaphthalene	77	78	28-121	1	30				
Naphthalene	81	82	61-102	0	30				
N-Nitrosodimethylamine	74	76	48-113	2	30				
Di-n-octylphthalate	238*	195*	40-192	20	30				
Phenanthrene	85	79	12-165	7	30				
Pyrene	155*	150	15-153	3	30				

Batch number: 10333B20A
TPH-GRO S.CA water C5-C12

Sample number(s): 6147116 UNSPK: P147605
113 63-154

Batch number: 103270005A
4-Amino-2,6-Dinitrotoluene
2-Amino-4,6-Dinitrotoluene
1,3-Dinitrobenzene
2,4-Dinitrotoluene
2,6-Dinitrotoluene
HMX
Nitrobenzene
Nitroglycerin
2-Nitrotoluene
3-Nitrotoluene
4-Nitrotoluene
PETN
RDX
Tetryl
1,3,5-Trinitrobenzene
2,4,6-Trinitrotoluene

Sample number(s): 6147114 UNSPK: P144599
108 103 80-127 5 50
110 107 80-137 4 50
106 103 38-166 3 50
106 102 80-131 4 50
111 106 80-127 4 50
100 97 63-128 3 50
104 100 80-125 4 50
106 103 80-120 3 50
111 107 80-122 4 50
107 104 72-119 3 50
107 103 80-125 4 50
111 106 80-121 4 50
96 94 75-129 2 50
111 107 55-174 4 50
115 112 82-126 3 50
107 101 82-130 6 50

Batch number: 103300006A
17a Formaldehyde by 8315A

Sample number(s): 6147114 UNSPK: P144599
98 101 80-120 3 50

Batch number: 103340001A
2,4-D
Dalapon
2,4-DB
Dicamba
Dinoseb
2,4-DP (Dichlorprop)
MCPA
MCP (Mecoprop)
2,4,5-T
2,4,5-TP

Sample number(s): 6147115 UNSPK: 6147115
58 136 28-161 80* 35
0* 26 12-86 200* 50
25 64 20-170 42 50
67 77 33-120 13 50
4 5 1-44 32 35
40* 110 55-141 93* 50
34 80 31-184 37 50
33 68 16-174 71* 50
55 102 25-132 60* 35
39 75 10-183 64* 35

Batch number: 103330019A

Sample number(s): 6147113 UNSPK: 6147113

*- Outside of specification

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

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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: 01/04/11 at 09:34 AM

Group Number: 1222291

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
6a Perchlorate EPA 6850	102	160*	70-130	44*	30				
Batch number: 103260008A	Sample number(s): 6147113-6147115 UNSPK: P144589								
PCB-1016	106	123	29-146	15	50				
PCB-1260	127	144	39-149	13	50				
Batch number: 103280011A	Sample number(s): 6147115 UNSPK: P141644								
Aldrin	74	71	16-126	4	50				
Alpha BHC	94	97	10-129	3	50				
Beta BHC	72	75	14-147	4	50				
Gamma BHC - Lindane	91	91	10-140	0	50				
p,p-DDD	181*	176*	16-163	3	50				
p,p-DDE	116	115	18-161	1	50				
p,p-DDT	165	163	10-176	1	50				
Delta BHC	75	72	23-140	4	50				
Dieldrin	108	106	19-154	1	50				
Endosulfan I	91	94	16-137	3	50				
Endosulfan II	84	97	28-154	14	50				
Endosulfan Sulfate	68	62	21-160	10	50				
Endrin	106	105	11-149	1	50				
Endrin Aldehyde	90	103	10-148	13	35				
Endrin Ketone	92	94	22-165	2	50				
Heptachlor	118	115	13-126	3	50				
Heptachlor Epoxide	87	84	13-157	4	50				
Methoxychlor	148*	166*	32-147	12	50				
Batch number: 103260038A	Sample number(s): 6147114 UNSPK: P144599								
EFH (C12-C14)	81	77	49-123	5	20				
EFH (C15-C20)	113	82	49-123	17	20				
EFH (C21-C30)	254 (2)	39 (2)	49-123	18	20				
EFH (C30 - C40)	247 (2)	143 (2)	49-123	11	20				
EFH (C8-C11)	69	68	49-123	2	20				
Batch number: 103270004A	Sample number(s): 6147114 UNSPK: P144599								
Ethanol	92	85	24-143	8	20				
Isopropanol	87	82	75-125	7	20				
Methanol	103	92	45-136	12	20				
Batch number: 103350011A	Sample number(s): 6147114 UNSPK: P144599								
Diethylene glycol	49*	79	59-109	47*	20				
Ethylene glycol	86	101	63-107	16	20				
Propylene glycol	79	94	63-107	17	20				
Batch number: 10328002	Sample number(s): 6147114 UNSPK: 6145766								
1,1-Dimethylhydrazine	41	52	10-116	23	30				
Hydrazine	9*	8*	11-102	5	30				
Methylhydrazine	21	25	10-92	19	30				
Batch number: 103281026001A	Sample number(s): 6147113-6147115 UNSPK: P149366 BKG: P149366								
Antimony	37*	33*	75-125	9	20	0.169 J	0.114 J	39* (1)	20
Arsenic	135*	104	75-125	9	20	4.69	4.34	8	20
Beryllium	91	83	75-125	5	20	0.554	0.495	11	20
Cadmium	109	113	75-125	3	20	0.0533 J	0.0457 J	15 (1)	20

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Chromium	114	70*	75-125	18	20	15.2	14.3	6	20
Cobalt	106	87	75-125	18	20	5.85	5.43	8	20
Copper	111	79	75-125	21*	20	5.53	5.56	0	20
Lead	146*	89	75-125	20	20	4.85	4.71	3	20
Nickel	117	73*	75-125	23*	20	9.20	8.44	9	20
Silver	124	101	75-125	20	20	0.0199 J	0.0117 U	200* (1)	20
Thallium	126*	91	75-125	19	20	0.278	0.270	3 (1)	20
Vanadium	115	18*	75-125	24*	20	33.2	30.4	9	20
Zinc	145 (2)	51 (2)	75-125	15	20	51.3	48.1	6	20
Batch number: 103281026001B	Sample number(s): 6147113-6147115 UNSPK: P149366 BKG: P149366								
Selenium	125	106	75-125	15	20	0.118 J	0.0623 J	62* (1)	20
Batch number: 103281026001C	Sample number(s): 6147113-6147115 UNSPK: P149366 BKG: P149366								
Molybdenum	114	97	75-125	16	20	0.171	0.174	2 (1)	20
Batch number: 103281026001D	Sample number(s): 6147113-6147115 UNSPK: P149366 BKG: P149366								
Barium	-9 (2)	-294 (2)	75-125	24*	20	132	101	27*	20
Batch number: 103285708005	Sample number(s): 6147113-6147115 UNSPK: P149366 BKG: P149366								
Aluminum	940 (2)	1353 (2)	75-125	5	20	12,000	12,300	3	20
Boron	97	97	84-115	1	20	0.975 J	0.864 U	200* (1)	20
Calcium	224 (2)	199 (2)	75-125	3	20	2,520	2,650	5	20
Iron	407 (2)	1166 (2)	75-125	4	20	18,800	19,400	3	20
Lithium	99	101	82-114	0	20	24.2	26.2	8	20
Magnesium	175 (2)	261 (2)	75-125	3	20	4,550	4,730	4	20
Manganese	85 (2)	120 (2)	75-125	6	20	240	277	14	20
Phosphorus	112	114	75-125	0	20	216	226	5	20
Potassium	112	130*	75-125	5	20	1,640	1,680	3	20
Sodium	105	105	75-125	1	20	284	299	5 (1)	20
Strontium	102	103	75-115	1	20	21.8	24.0	10	20
Tin	91	90	80-110	3	20	2.31 J	2.38 J	3 (1)	20
Titanium	445 (2)	344 (2)	75-125	7	20	1,150	1,180	2	20
Zirconium	101	101	75-125	2	20	4.13 J	4.87	17 (1)	20
Batch number: 103285711001	Sample number(s): 6147113-6147115 UNSPK: P149366 BKG: P149366								
Mercury	106	99	65-135	5	20	0.0028 U	0.0027 U	0 (1)	20
Batch number: 10336336202A	Sample number(s): 6147113-6147115 UNSPK: P144599 BKG: P144599								
7a Perchlorate EPA 314.0	121*		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10337102201A	Sample number(s): 6147114 UNSPK: 6147114 BKG: 6147114								
21a Cyanide by 9012B	112		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 10337337202A	Sample number(s): 6147113,6147115 UNSPK: 6147113 BKG: 6147113								
11a Anions by 300.0 - Fluoride	78*		80-120			3.2	4.3	31* (1)	20
Batch number: 10340243201A	Sample number(s): 6147113-6147115 UNSPK: P144589 BKG: P144589								
3a Cr VI by EPA 7199	93		75-125			0.32 J	0.48 J	42* (1)	20

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10341341201A	Sample number(s): 6147114 UNSPK: 6147114 BKG: 6147114								
11a Anions by 300.0 - Fluoride	64*		80-120			8.8	6.3	33*	20
11a Anions by 300.0 - Nitrate	91		80-120			1.4 J	1.4 J	4 (1)	20
Batch number: 10327039408A	Sample number(s): 6147113-6147115 BKG: 6147113								
22a pH by 9045C						7.27	7.27	0	1
Batch number: 10327182105A	Sample number(s): 6147113-6147115 BKG: P147057								
Oxidation Reduction Potential						317	316	0	6
Batch number: 10334162401A	Sample number(s): 6147113,6147115 BKG: P149366								
28a Total Solids by 160.3						4.3	4.1	4	20
Batch number: 10342162401A	Sample number(s): 6147114 BKG: P149363								
28a Total Solids by 160.3						10	9.8	2	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: B103191AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6147113	95	96	98	87
6147114	96	98	97	87
Blank	97	100	97	89
LCS	95	104	99	94
MS	101	101	98	97
MSD	100	100	98	96
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM

Batch number: E103281AA

Toluene-d8

6147116	101
Blank	99
LCS	100
LCSD	100

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM

Batch number: E103282AA

Toluene-d8

6147113	98

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

Surrogate Quality Control

6147114 99
Blank 100
LCS 99
LCSD 99

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260

Batch number: Y103263AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6147116	97	98	103	99
Blank	99	94	103	100
LCS	99	99	104	101
LCSD	97	98	104	100

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

Analysis Name: 5a Semivolatiles by EPA 8270C

Batch number: 10330SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6147113	83	90	87	86	94	88
6147114	82	88	88	81	91	81
6147115	75	81	76	80	90	79
Blank	80	84	86	80	85	78
LCS	89	91	97	84	89	86
MS	84	88	90	85	95	84
MSD	88	91	98	82	89	88

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

Analysis Name: 4a Select SVOC EPA 8270SIM

Batch number: 10333SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6147113	72	76	80
6147114	71	74	89
Blank	76	81	103
LCS	74	78	83
MS	77	84	77
MSD	74	81	80

Limits: 40-130 45-130 45-135

Analysis Name: 19a NDMA by 1625C

Batch number: 10333SLD026

N-Nitrosodimethylamine-d6

6147114 73
Blank 90
LCS 69
MS 72
MSD 66

Limits: 50-150

*- 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: 01/04/11 at 09:34 AM

Group Number: 1222291

Surrogate Quality Control

Analysis Name: 4a Select SVOC EPA 8270SIM

Batch number: 10335SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6147115	76	74	142*
Blank	82	89	87
LCS	80	84	80
MS	77	84	152*
MSD	75	80	157*

Limits: 40-130 45-130 45-135

Analysis Name: 9a TPH by EPA 8015B Gas

Batch number: 10326A34A

Trifluorotoluene-F

6147114	82
Blank	87
LCS	89
LCSD	88

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas

Batch number: 10333B20A

Trifluorotoluene-F

6147116	83
Blank	83
LCS	112
LCSD	111
MS	135

Limits: 63-135

Analysis Name: 8a PCBs/PCTs by 8082

Batch number: 103260008A

Tetrachloro-m-xylene

Decachlorobiphenyl

6147113	98	103
6147114	99	110
6147115	107	132*
Blank	106	120
LCS	100	116
LCSD	108	122*
MS	107	119
MSD	126	136*

Limits: 53-139 45-120

Analysis Name: 20a Energetics by 8330A

Batch number: 103270005A

2-Nitro-m-xylene

6147114	108
Blank	115

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

Surrogate Quality Control

LCS 114
LCSD 112
MS 126
MSD 114

Limits: 80-146

Analysis Name: 12a Pesticides by 8081A
Batch number: 103280011A
Tetrachloro-m-xylene Decachlorobiphenyl

6147115	77	160*
Blank	78	107
LCS	86	108
MS	78	73
MSD	81	92

Limits: 50-130 20-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103300006A
Butyraldehyde

6147114	94
Blank	101
LCS	101
MS	95
MSD	99

Limits: 64-126

Analysis Name: 13a Herbicides by EPA 8151
Batch number: 103340001A
2,4-Dichlorophenylacetic acid

6147115	53
Blank	89
LCS	96
MS	66
MSD	115

Limits: 36-156

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103260011A
n-Triacontane-d62

6147114	95
Blank	104
LCS	103
LCSD	103

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103260038A

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 09:34 AM

Group Number: 1222291

Surrogate Quality Control

	Chlorobenzene	Orthoterphenyl
6147114	76	76
Blank	74	76
LCS	81	85
MS	80	85
MSD	82	86

Limits: 37-125 47-145

Analysis Name: 25a Alcohols by 8015B
Batch number: 103270004A
Acetone

6147114	73
Blank	98
LCS	97
MS	82
MSD	82

Limits: 42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103350011A
Tetramethylene glycol

6147114	85
Blank	116
LCS	99
MS	75
MSD	86

Limits: 50-119

*- Outside of specification

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

acct# 13013

Cp# 1222291

sample# 6147113-16

CHAIN OF CUSTODY RECORD

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						VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-EFH EPA 8015B Mod.	TPH-GRO EPA 8015B	*Metals EPA 6010/60208&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	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols/Glycols EPA 8015B	**Terphenyls EPA 8015B	
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
SL-051-SA5C-SB-4.0	11.19.10	1140	soil	none	4 Encore samplers	X	X																				
SL-051-SA5C-SB-3.0-4.0	11.19.10	1145	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X	X										
SL-052-SA5C-SB-3.0	11.19.10	1040	soil	none	5 Encore samplers	X	X			X																	
SL-052-SA5C-SB-2.5-3.0	11.19.10	1045	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X											
SL-052-SA5C-SB-2.5-3.0	11.19.10	1045	soil	none	1 - 16 oz. jar												X	X		X	X	X	X		X		
SL-052-SA5C-SB-2.5-3.0	11.19.10	1045	soil	none	3 - 4 oz. jars				X															X			
SL-052-SA5C-SB-2.5-3.0	11.19.10	1045	soil	none	1 - 4 oz. amber jar														X								
SL-042-SA5C-SB-0.0-0.5	11.19.10	1430	soil	none	1 stainless steel sleeve			X						X													
SL-042-SA5C-SB-0.0-0.5	11.19.10	1430	soil	none	1 - 16 oz. jar						X	X	X		X	X											
TB-111910	11.19.10	1630	water	HCl	4 - 40 ml VOAs	X	X			X																	
Relinquished by: (Signature)	Date/Time		Received for Laboratory by: (Signature)			Date/Time		Laboratory:																			
<i>[Signature]</i>	11.19.10 1630		<i>[Signature]</i>			11/20/10 9:15		Lancaster Laboratories, Inc.																			
Received by: (Signature)	Date/Time		Airbill No.			Cooler 1																					
<i>[Signature]</i>			00732992																								
Tracking Number 869514314640																											

869514314640

Pests & Herbs were added to
SL-042-SB on 11/22/10 per PB. NUM 11/22/10

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:

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Lancaster, PA 17605-2425

Prepared for:

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

January 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/23/2010

Group Number: 1222508

SDG: DE021

PO Number: 1203-004-007-AL

Release Number: Tracking #11667

State of Sample Origin: CA

Client Sample DescriptionSL-050-SA5C-SB-4.0-5.0 Soil
SL-050-SA5C-SB-9.0-10.0 Soil
SL-053-SA5C-SB-3.0-4.0 Soil
SL-066-SA5C-SB-3.0-4.0 Soil
SL-078-SA5C-SB-4.0-5.0 Soil
TB-112210 WaterLancaster Labs (LLI) #6148497
6148498
6148499
6148500
6148501
6148502

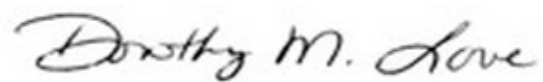
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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

Attn: Todd Burgess

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

Respectfully Submitted,



Dorothy M. Love
Group Leader

Sample Description: SL-050-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-4.0-5.0

LLI Sample # SW 6148497
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:20 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05045 SDG#: DE021-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.2 U	6.2	7.4	0.84
06192	Benzene	71-43-2	0.09 U	0.09	3.7	0.84
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.7	0.84
06192	Bromochloromethane	74-97-5	0.30 U	0.30	3.7	0.84
06192	Bromodichloromethane	75-27-4	0.07 U	0.07	3.7	0.84
06192	Bromoform	75-25-2	0.37 U	0.37	3.7	0.84
06192	Bromomethane	74-83-9	0.23 U	0.23	3.7	0.84
06192	2-Butanone	78-93-3	1.1 U	1.1	7.4	0.84
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.7	0.84
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.7	0.84
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.7	0.84
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.7	0.84
06192	Chlorobenzene	108-90-7	0.10 U	0.10	3.7	0.84
06192	Chloroethane	75-00-3	0.12 U	0.12	3.7	0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28 U	0.28	3.7	0.84
06192	Chloroform	67-66-3	0.11 U	0.11	3.7	0.84
06192	Chloromethane	74-87-3	0.30 U	0.30	3.7	0.84
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.7	0.84
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.7	0.84
06192	Chlorotrifluoroethene	79-38-9	0.46 U	0.46	4.6	0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.64 U	0.64	3.7	0.84
06192	Dibromochloromethane	124-48-1	0.18 U	0.18	3.7	0.84
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.7	0.84
06192	Dibromomethane	74-95-3	0.22 U	0.22	3.7	0.84
06192	1,2-Dichlorobenzene	95-50-1	0.08 U	0.08	3.7	0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.7	0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.7	0.84
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.7	0.84
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.7	0.84
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.7	0.84
06192	1,1-Dichloroethene	75-35-4	0.36 U	0.36	3.7	0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.17 U	0.17	3.7	0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.7	0.84
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.7	0.84
06192	1,3-Dichloropropane	142-28-9	0.07 U	0.07	3.7	0.84
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.7	0.84
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.7	0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.7	0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.7	0.84
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.7	0.84
06192	Freon 113	76-13-1	0.10 U	0.10	3.7	0.84
06192	Freon 133a	75-88-7	0.46 U	0.46	4.6	0.84
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.7	0.84
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.4	0.84
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.7	0.84
06192	p-Isopropyltoluene	99-87-6	0.10 U	0.10	3.7	0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.19 U	0.19	3.7	0.84
06192	4-Methyl-2-pentanone	108-10-1	0.36 U	0.36	7.4	0.84
06192	Methylene Chloride	75-09-2	0.22 U	0.22	3.7	0.84
06192	n-Propylbenzene	103-65-1	0.06 U	0.06	3.7	0.84

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

Sample Description: SL-050-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-4.0-5.0

LLI Sample # SW 6148497
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:20 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05045 SDG#: DE021-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.09 U	0.09	3.7	0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10 U	0.10	3.7	0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.21 U	0.21	3.7	0.84
06192	Tetrachloroethene	127-18-4	0.18 U	0.18	3.7	0.84
06192	Toluene	108-88-3	0.07 U	0.07	3.7	0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13	3.7	0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17	3.7	0.84
06192	1,1,1-Trichloroethane	71-55-6	0.18 U	0.18	3.7	0.84
06192	1,1,2-Trichloroethane	79-00-5	0.25 U	0.25	3.7	0.84
06192	Trichloroethene	79-01-6	0.14 U	0.14	3.7	0.84
06192	Trichlorofluoromethane	75-69-4	0.27 U	0.27	3.7	0.84
06192	1,2,3-Trichloropropane	96-18-4	0.30 U	0.30	3.7	0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.37 U	0.37	3.7	0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09	3.7	0.84
06192	Vinyl Chloride	75-01-4	0.18 U	0.18	3.7	0.84
06192	m+p-Xylene	179601-23-1	0.16 U	0.16	3.7	0.84
06192	o-Xylene	95-47-6	0.16 U	0.16	3.7	0.84
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	4.3 U	4.3	13	19.81
GC/MS Semivolatiles EPA 1625C						
11622	N-Nitrosodimethylamine	62-75-9	110	18.2	36.4	1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 38 ng/kg. The data reported here is from the initial extraction of the sample.						
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	3,600	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

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

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SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-4.0-5.0

LLI Sample # SW 6148497
LLI Group # 1222508
Account # 13013

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05045 SDG#: DE021-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	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	36	J 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
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	
10138	Acenaphthene	83-32-9	1.0	J 0.73	1.8	1
10138	Acenaphthylene	208-96-8	0.93	J 0.36	1.8	1
10138	Anthracene	120-12-7	2.7	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	2.0	0.73	1.8	1
10138	Benzo(a)pyrene	50-32-8	2.4	0.73	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	2.5	0.73	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	2.1	0.73	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	2.8	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

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

Sample Description: SL-050-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-4.0-5.0

LLI Sample # SW 6148497
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CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Chrysene	218-01-9	2.4	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	1.6 J	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	2.4	0.73	1.8	1
10138	Fluorene	86-73-7	2.3	0.73	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	1.8 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	0.86 J	0.73	1.8	1
10138	Naphthalene	91-20-3	0.73 U	0.73	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	14	0.73	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20	1
10138	Phenanthrene	85-01-8	2.9	0.73	1.8	1
10138	Pyrene	129-00-0	2.1	0.73	1.8	1
GC Volatiles TPH GRO SW-846 8015B mod						
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.0	23.36
Explosives SW-846 8330A						
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	82 U	82	160	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55 U	55	160	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	330	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	330	1
10132	1,3-Dinitrobenzene	99-65-0	55 U	55	160	1
10132	2,4-Dinitrotoluene	121-14-2	55 U	55	160	1
10132	2,6-Dinitrotoluene	606-20-2	55 U	55	160	1
10132	HMX	2691-41-0	140 U	140	410	1
10132	Nitrobenzene	98-95-3	55 U	55	160	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,300	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1
10132	3-Nitrotoluene	99-08-1	140 U	140	160	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1
10132	PETN	78-11-5	1,100 U	1,100	3,300	1
10132	RDX	121-82-4	68 U	68	160	1
10132	Tetryl	479-45-8	84 U	84	160	1
10132	1,3,5-Trinitrobenzene	99-35-4	55 U	55	160	1
10132	2,4,6-Trinitrotoluene	118-96-7	55 U	55	160	1
HPLC Organics SW-846 8315A						
04173	17a Formaldehyde by 8315A	50-00-0	660 U	660	1,600	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	2.8 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

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

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05045 SDG#: DE021-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs						
	SW-846 8082		ug/kg	ug/kg	ug/kg	
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	0.94 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 Extractable TPH						
	SW-846 8015B modified		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.	0.44 U	0.44	1.3	1
10199	EFH (C21-C30)	n.a.	0.44 U	0.44	1.3	1
10199	EFH (C30 - C40)	n.a.	0.44 U	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	
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	270 J	110	550	1
GC Miscellaneous						
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	6.6 U	6.6	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
The samples were 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. Reporting limits were raised for diethylene glycol due to possible instrument interference. The diethylene glycol result for the reextraction is ND.						
Terphenyls						
	SW-846 8015B		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
Misc. Organics						
	SW-846 8315A modified		ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.2 U	2.2	5.5	1
10346	Hydrazine	302-01-2	0.55 U	0.55	2.2	1
10346	Methylhydrazine	60-34-4	2.2 U	2.2	5.5	1
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	20,400	5.39	21.4	1

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

Sample Description: SL-050-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-4.0-5.0

LLI Sample # SW 6148497
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:20 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05045 SDG#: DE021-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	2.62 J	0.954	5.36	1
01650	Calcium	7440-70-2	3,390	6.57	21.4	1
01654	Iron	7439-89-6	22,000	5.05	21.4	1
01656	Lithium	7439-93-2	21.7	0.24	2.1	1
01657	Magnesium	7439-95-4	4,400	2.72	10.7	1
06958	Manganese	7439-96-5	291	0.0836	0.536	1
10145	Phosphorus	7723-14-0	188	0.600	10.7	1
01662	Potassium	7440-09-7	2,230	19.3	53.6	1
01667	Sodium	7440-23-5	182	40.0	107	1
07968	Strontium	7440-24-6	29.9	0.0664	0.536	1
06969	Tin	7440-31-5	2.45 J	1.07	10.7	1
06970	Titanium	7440-32-6	1,250	2.04	5.36	5
10146	Zirconium	7440-67-7	3.09 J	0.900	5.36	1
SW-846 6020						
			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.229	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	5.88	0.0637	0.424	2
06126	Barium	7440-39-3	125	0.115	0.424	2
06127	Beryllium	7440-41-7	0.726	0.0170	0.106	2
06128	Cadmium	7440-43-9	0.140	0.0382	0.106	2
06131	Chromium	7440-47-3	24.8	0.127	0.424	2
06132	Cobalt	7440-48-4	7.34	0.0212	0.106	2
06133	Copper	7440-50-8	12.4	0.0700	0.424	2
06135	Lead	7439-92-1	8.83	0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.476	0.0531	0.106	2
06139	Nickel	7440-02-0	13.7	0.106	0.424	2
06141	Selenium	7782-49-2	0.111 J	0.0424	0.424	2
06142	Silver	7440-22-4	0.0560 J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.319	0.0318	0.106	2
06148	Vanadium	7440-62-2	45.6	0.0233	0.106	2
06149	Zinc	7440-66-6	57.3	0.594	3.18	2
SW-846 7471A						
			mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0044 J	0.0030	0.106	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.9	0.87	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.8	0.87	1.6	1
EPA 314.0						
			ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.8	1
SW-846 7199						
			mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.34 J	0.22	1.1	1

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

Sample Description: SL-050-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-4.0-5.0

LLI Sample # SW 6148497
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:20 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05045 SDG#: DE021-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry						
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.53	1
ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	446	10.0	10.0	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.	8.49	0.0100	0.0100	1
Wet Chemistry						
11624	28a Total Solids by 160.3	n.a.	8.5	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-050-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	B103191AB	11/24/2010 16:24	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103282AA	11/24/2010 16:57	Jason M Long	19.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032723088	11/23/2010 19:51	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201032723088	11/23/2010 20:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201032723088	11/23/2010 20:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032723088	11/23/2010 19:49	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/21/2010 22:54	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 04:20	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLB026	12/03/2010 14:46	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLB026	11/29/2010 11:45	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1

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

Sample Description: SL-050-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-4.0-5.0

LLI Sample # SW 6148497
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:20 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05045 SDG#: DE021-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10332A34A	12/01/2010 00:28	Elizabeth J Marin	23.36
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201032723088	11/23/2010 19:48	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103300007A	12/02/2010 04:04	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 20:48	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/02/2010 23:54	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103300007A	11/26/2010 12:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103330011A	12/04/2010 02:40	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103270004A	11/24/2010 17:59	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 22:04	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103330028A	12/01/2010 18:07	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103330011A	11/29/2010 16:35	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103330028A	11/30/2010 06:20	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103270004A	11/24/2010 12:30	Marie D John	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10328002	11/25/2010 23:14	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:13	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:13	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:13	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 03:13	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 20:26	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:13	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:13	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:13	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 20:26	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:13	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:13	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:13	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 20:30	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 20:26	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 14:35	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2

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

Sample Description: SL-050-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-4.0-5.0

LLI Sample # SW 6148497
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:20 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05045 SDG#: DE021-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:35	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:35	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:35	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 10:56	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201A	12/08/2010 14:54	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201A	12/08/2010 14:54	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10336336202A	12/06/2010 20:10	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010 15:05	William L Hamaker Jr	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10337102201A	12/03/2010 18:27	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10341341201A	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10336336202A	12/02/2010 13:45	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10337102201A	12/03/2010 10:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10327182105A	11/23/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10327039408A	11/23/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010 11:42	William C Schwebel	1

Sample Description: SL-050-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-9.0-10.0

LLI Sample # SW 6148498
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05091 SDG#: DE021-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles EPA 1625C						
11622	N-Nitrosodimethylamine	62-75-9	109	18.8	37.7	1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 36 ng/kg. The data reported here is from the initial extraction of the sample.						
GC/MS Semivolatiles SW-846 8270C						
04688	Aniline	62-53-3	190	U	190	1
04688	Benzidine	92-87-5	1,300	U	1,300	1
04688	Benzoic acid	65-85-0	190	U	190	1
04688	Benzyl alcohol	100-51-6	190	U	190	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U	19	1
04688	Carbazole	86-74-8	19	U	19	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U	38	1
04688	4-Chloroaniline	106-47-8	75	U	75	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U	19	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U	19	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U	19	1
04688	2-Chloronaphthalene	91-58-7	19	U	19	1
04688	2-Chlorophenol	95-57-8	19	U	19	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U	38	1
04688	Dibenzofuran	132-64-9	19	U	19	1
04688	1,2-Dichlorobenzene	95-50-1	19	U	19	1
04688	1,3-Dichlorobenzene	541-73-1	19	U	19	1
04688	1,4-Dichlorobenzene	106-46-7	19	U	19	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U	110	1
04688	2,4-Dichlorophenol	120-83-2	19	U	19	1
04688	2,4-Dimethylphenol	105-67-9	38	U	38	1
04688	3,5-Dimethylphenol	108-68-9	38	U	38	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U	190	1
04688	2,4-Dinitrophenol	51-28-5	750	U	750	1
04688	2,4-Dinitrotoluene	121-14-2	38	U	38	1
04688	2,6-Dinitrotoluene	606-20-2	19	U	19	1
04688	1,2-Diphenylhydrazine	122-66-7	19	U	19	1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	39	J	19	1
04688	Hexachlorobenzene	118-74-1	19	U	19	1
04688	Hexachlorobutadiene	87-68-3	75	U	75	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U	190	1
04688	Hexachloroethane	67-72-1	19	U	19	1
04688	Isophorone	78-59-1	19	U	19	1
04688	2-Methylphenol	95-48-7	38	U	38	1
04688	4-Methylphenol	106-44-5	38	U	38	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	1
04688	3-Nitroaniline	99-09-2	38	U	38	1

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

Sample Description: SL-050-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-9.0-10.0

LLI Sample # SW 6148498
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05091 SDG#: DE021-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	4-Nitroaniline	100-01-6	75 U	75	190	1
04688	Nitrobenzene	98-95-3	19 U	19	190	1
04688	2-Nitrophenol	88-75-5	19 U	19	190	1
04688	4-Nitrophenol	100-02-7	190 U	190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19 U	19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19 U	19	190	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
04688	Pentachlorophenol	87-86-5	190 U	190	560	1
04688	Phenol	108-95-2	19 U	19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19 U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38 U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38 U	38	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.75 U	0.75	1.9	1
10138	Acenaphthylene	208-96-8	0.38 U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38 U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.75 U	0.75	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.75 U	0.75	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.75 U	0.75	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.75 U	0.75	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.75 U	0.75	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8 U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8 U	6.8	20	1
10138	Chrysene	218-01-9	0.38 U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.75 U	0.75	1.9	1
10138	Diethylphthalate	84-66-2	6.8 U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8 U	6.8	20	1
10138	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
Explosives	SW-846 8330A		ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	85 U	85	170	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56 U	56	170	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	340	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	340	1
10132	1,3-Dinitrobenzene	99-65-0	56 U	56	170	1
10132	2,4-Dinitrotoluene	121-14-2	56 U	56	170	1
10132	2,6-Dinitrotoluene	606-20-2	56 U	56	170	1

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

Sample Description: SL-050-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-9.0-10.0

LLI Sample # SW 6148498
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05091 SDG#: DE021-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Explosives						
	SW-846 8330A		ug/kg	ug/kg	ug/kg	
10132	HMX	2691-41-0	140 U	140	420	1
10132	Nitrobenzene	98-95-3	56 U	56	170	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,400	1
10132	2-Nitrotoluene	88-72-2	110 U	110	170	1
10132	3-Nitrotoluene	99-08-1	140 U	140	170	1
10132	4-Nitrotoluene	99-99-0	110 U	110	170	1
10132	PETN	78-11-5	1,100 U	1,100	3,400	1
10132	RDX	121-82-4	71 U	71	170	1
10132	Tetryl	479-45-8	86 U	86	170	1
10132	1,3,5-Trinitrobenzene	99-35-4	56 U	56	170	1
10132	2,4,6-Trinitrotoluene	118-96-7	56 U	56	170	1
HPLC Organics						
	SW-846 8315A		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	
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	0.37 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.						
GC Extractable TPH						
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.45 U	0.45	1.4	1
10199	EFH (C15-C20)	n.a.	0.45 U	0.45	1.4	1
10199	EFH (C21-C30)	n.a.	0.45 U	0.45	1.4	1
10199	EFH (C30 - C40)	n.a.	0.58 J	0.45	1.4	1
10199	EFH (C8-C11)	n.a.	0.45 U	0.45	1.4	1
GC Miscellaneous						
	SW-846 8015B		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	330 J	110	560	1
GC Miscellaneous						
	SW-846 8015B modified		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

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

Sample Description: SL-050-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-9.0-10.0

LLI Sample # SW 6148498
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05091 SDG#: DE021-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC Miscellaneous		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	
08283	Propylene glycol	57-55-6	5.6 U	5.6	14	1
The samples were 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.						
Terphenyls		SW-846 8015B	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
Misc. Organics		SW-846 8315A modified	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.3 U	2.3	5.6	1
10346	Hydrazine	302-01-2	0.56 U	0.56	2.3	1
10346	Methylhydrazine	60-34-4	2.3 U	2.3	5.6	1
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,800	5.52	21.9	1
07914	Boron	7440-42-8	1.56 J	0.976	5.49	1
01650	Calcium	7440-70-2	2,550	6.72	21.9	1
01654	Iron	7439-89-6	22,600	5.17	21.9	1
01656	Lithium	7439-93-2	25.4	0.24	2.2	1
01657	Magnesium	7439-95-4	4,900	2.79	11.0	1
06958	Manganese	7439-96-5	295	0.0856	0.549	1
10145	Phosphorus	7723-14-0	263	0.614	11.0	1
01662	Potassium	7440-09-7	1,450	19.7	54.9	1
01667	Sodium	7440-23-5	143	40.9	110	1
07968	Strontium	7440-24-6	25.8	0.0680	0.549	1
06969	Tin	7440-31-5	2.36 J	1.10	11.0	1
06970	Titanium	7440-32-6	1,370	2.08	5.49	5
10146	Zirconium	7440-67-7	3.44 J	0.922	5.49	1
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0942 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	5.54	0.0652	0.435	2
06126	Barium	7440-39-3	143	0.117	0.435	2
06127	Beryllium	7440-41-7	0.922	0.0174	0.109	2
06128	Cadmium	7440-43-9	0.0391 U	0.0391	0.109	2
06131	Chromium	7440-47-3	23.9	0.130	0.435	2
06132	Cobalt	7440-48-4	7.25	0.0217	0.109	2
06133	Copper	7440-50-8	9.25	0.0717	0.435	2
06135	Lead	7439-92-1	7.64	0.0113	0.217	2
06138	Molybdenum	7439-98-7	1.05	0.0543	0.109	2
06139	Nickel	7440-02-0	15.9	0.109	0.435	2

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

Sample Description: SL-050-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-9.0-10.0

LLI Sample # SW 6148498
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05091 SDG#: DE021-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06141	Selenium	7782-49-2	0.0473 J	0.0435	0.435	2
06142	Silver	7440-22-4	0.0541 J	0.0130	0.109	2
06145	Thallium	7440-28-0	0.269	0.0326	0.109	2
06148	Vanadium	7440-62-2	49.9	0.0239	0.109	2
06149	Zinc	7440-66-6	51.3	0.608	3.26	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0039 J	0.0032	0.111	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.2	0.90	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.9	0.90	1.7	1
	EPA 314.0		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	
05892	3a Cr VI by EPA 7199	18540-29-9	0.43 J	0.23	1.1	1
	SW-846 9012B		mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.54	1
	ASTM D1498		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	566	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.22	0.0100	0.0100	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11624	28a Total Solids by 160.3	n.a.	11.5	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

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

Sample Description: SL-050-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-9.0-10.0

LLI Sample # SW 6148498
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05091 SDG#: DE021-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/21/2010 23:12	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 04:45	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLB026	12/03/2010 21:24	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLB026	11/29/2010 11:45	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
10132	20a Energetics by 8330A	SW-846 8330A	1	103300007A	12/02/2010 06:11	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 20:58	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 00:13	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103300007A	11/26/2010 12:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B	SW-846 8015B modified	1	103330011A	12/04/2010 03:05	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103270004A	11/24/2010 18:28	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 22:20	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103330028A	12/01/2010 20:18	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103330011A	11/29/2010 16:35	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103330028A	11/30/2010 06:20	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103270004A	11/24/2010 12:30	Marie D John	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10328002	11/25/2010 23:34	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:17	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:17	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:17	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 03:17	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 20:43	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:17	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:17	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:17	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 20:43	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:17	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:17	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:17	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 20:33	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 20:43	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 14:38	Choon Y Tian	2

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

Sample Description: SL-050-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-050-SA5C-SB-9.0-10.0

LLI Sample # SW 6148498
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 10:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05091 SDG#: DE021-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:38	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 10:57	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201A	12/08/2010 15:08	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201A	12/08/2010 15:08	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10336336202A	12/06/2010 20:34	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010 15:40	William L Hamaker Jr	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10337102201A	12/03/2010 18:28	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10341341201A	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10336336202A	12/02/2010 13:45	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10337102201A	12/03/2010 10:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10327182105A	11/23/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10327039408A	11/23/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010 11:42	William C Schwebel	1

Sample Description: SL-053-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SB-3.0-4.0

LLI Sample # SW 6148499
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 11:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05334 SDG#: DE021-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.6 U	6.6	7.9	0.93
06192	Benzene	71-43-2	0.1 U	0.1	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	7.9	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	0.12 U	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	0.69 U	0.69	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	0.1 U	0.1	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	7.9	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	7.9	0.93
06192	Methylene Chloride	75-09-2	0.57 J	0.24	4.0	0.93
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0	0.93

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

Sample Description: SL-053-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SB-3.0-4.0

LLI Sample # SW 6148499
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 11:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05334 SDG#: DE021-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.1 U	0.1	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	0.1 U	0.1	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	4.8 U	4.8	14	22.44
GC/MS Semivolatiles EPA 1625C						
11622	N-Nitrosodimethylamine	62-75-9	38.4	17.8	35.6	1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 27 ng/kg. The data reported here is from the initial extraction of the sample.						
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

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

Sample Description: SL-053-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SB-3.0-4.0

LLI Sample # SW 6148499
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 11:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05334 SDG#: DE021-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	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
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	29	J 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	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	
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

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

Sample Description: SL-053-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SB-3.0-4.0

LLI Sample # SW 6148499
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 11:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05334 SDG#: DE021-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	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
10138	1-Methylnaphthalene	90-12-0	0.71 U	0.71	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.71 U	0.71	1.8	1
10138	Naphthalene	91-20-3	0.71 U	0.71	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.71 U	0.71	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.4 U	6.4	19	1
10138	Phenanthrene	85-01-8	0.71 U	0.71	1.8	1
10138	Pyrene	129-00-0	0.71 U	0.71	1.8	1
GC Volatiles TPH GRO SW-846 8015B mod						
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1	22.28
Explosives SW-846 8330A						
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	80 U	80	160	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	53 U	53	160	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320	1
10132	1,3-Dinitrobenzene	99-65-0	53 U	53	160	1
10132	2,4-Dinitrotoluene	121-14-2	53 U	53	160	1
10132	2,6-Dinitrotoluene	606-20-2	53 U	53	160	1
10132	HMX	2691-41-0	130 U	130	400	1
10132	Nitrobenzene	98-95-3	53 U	53	160	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1
10132	3-Nitrotoluene	99-08-1	130 U	130	160	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1
10132	PETN	78-11-5	1,100 U	1,100	3,200	1
10132	RDX	121-82-4	67 U	67	160	1
10132	Tetryl	479-45-8	82 U	82	160	1
10132	1,3,5-Trinitrobenzene	99-35-4	53 U	53	160	1
10132	2,4,6-Trinitrotoluene	118-96-7	53 U	53	160	1
HPLC Organics SW-846 8315A						
04173	17a Formaldehyde by 8315A	50-00-0	640 U	640	1,600	1
Pesticides/PCBs SW-846 8082						
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

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

Sample Description: SL-053-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SB-3.0-4.0

LLI Sample # SW 6148499
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 11:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05334 SDG#: DE021-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	
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	
10199	EFH (C12-C14)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	0.43 U	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	
10501	Ethanol	64-17-5	310 J	110	530	1
10501	Isopropanol	67-63-0	110 U	110	530	1
10501	Methanol	67-56-1	270 J	110	530	1

GC Miscellaneous		SW-846 8015B modified	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

The samples were 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.

The surrogate data is outside the QC limits. Results from the re-extraction are within the limits. The hold time had expired prior to the re-extraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Terphenyls		SW-846 8015B	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

Misc. Organics		SW-846 8315A modified	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.1 U	2.1	5.3	1
10346	Hydrazine	302-01-2	0.53 U	0.53	2.1	1
10346	Methylhydrazine	60-34-4	2.1 U	2.1	5.3	1

Sample Description: SL-053-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SB-3.0-4.0

LLI Sample # SW 6148499
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05334 SDG#: DE021-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,400	5.21	20.7	1
07914	Boron	7440-42-8	1.39 J	0.922	5.18	1
01650	Calcium	7440-70-2	2,680	6.35	20.7	1
01654	Iron	7439-89-6	25,100	4.88	20.7	1
01656	Lithium	7439-93-2	26.3	0.23	2.1	1
01657	Magnesium	7439-95-4	5,060	2.63	10.4	1
06958	Manganese	7439-96-5	210	0.0808	0.518	1
10145	Phosphorus	7723-14-0	168	0.580	10.4	1
01662	Potassium	7440-09-7	1,640	18.7	51.8	1
01667	Sodium	7440-23-5	405	38.6	104	1
07968	Strontium	7440-24-6	26.8	0.0642	0.518	1
06969	Tin	7440-31-5	2.52 J	1.04	10.4	1
06970	Titanium	7440-32-6	1,210	1.97	5.18	5
10146	Zirconium	7440-67-7	3.60 J	0.870	5.18	1
SW-846 6020						
	mg/kg		mg/kg	mg/kg		
06124	Antimony	7440-36-0	0.0628 U	0.0628	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	6.64	0.0628	0.419	2
06126	Barium	7440-39-3	134	0.113	0.419	2
06127	Beryllium	7440-41-7	0.814	0.0167	0.105	2
06128	Cadmium	7440-43-9	0.0514 J	0.0377	0.105	2
06131	Chromium	7440-47-3	25.1	0.126	0.419	2
06132	Cobalt	7440-48-4	6.00	0.0209	0.105	2
06133	Copper	7440-50-8	8.78	0.0691	0.419	2
06135	Lead	7439-92-1	7.93	0.0109	0.209	2
06138	Molybdenum	7439-98-7	0.905	0.0523	0.105	2
06139	Nickel	7440-02-0	12.3	0.105	0.419	2
06141	Selenium	7782-49-2	0.112 J	0.0419	0.419	2
06142	Silver	7440-22-4	0.0330 J	0.0126	0.105	2
06145	Thallium	7440-28-0	0.302	0.0314	0.105	2
06148	Vanadium	7440-62-2	47.9	0.0230	0.105	2
06149	Zinc	7440-66-6	51.1	0.586	3.14	2
SW-846 7471A						
	mg/kg		mg/kg	mg/kg		
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.101	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	5.2	0.85	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	1.3 J	0.85	1.6	1
EPA 314.0						
	ug/kg		ug/kg	ug/kg		
10147	7a Perchlorate EPA 314.0	14797-73-0	9.6 U	9.6	32.0	1
SW-846 7199						
	mg/kg		mg/kg	mg/kg		
05892	3a Cr VI by EPA 7199	18540-29-9	0.28 J	0.21	1.1	1

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

Sample Description: SL-053-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SB-3.0-4.0

LLI Sample # SW 6148499
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 11:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05334 SDG#: DE021-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		SW-846 9012B	mg/kg	mg/kg	mg/kg	
05895	21a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.51	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	542	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.13	0.0100	0.0100	1
Wet Chemistry		EPA 160.3 modified	%	%	%	
11624	28a Total Solids by 160.3	n.a.	6.3	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
The volatile analysis was performed on soil from SL-053-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	B103191AB	11/24/2010 14:44	Chelsea B Eastep	0.93
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103282AA	11/24/2010 17:17	Jason M Long	22.44
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032723088	11/23/2010 19:57	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032723088	11/23/2010 20:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032723088	11/23/2010 20:10	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032723088	11/23/2010 19:55	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/21/2010 23:29	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 05:11	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLB026	12/03/2010 21:57	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLB026	11/29/2010 11:45	Olivia I Santiago	1

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

Sample Description: SL-053-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SB-3.0-4.0

LLI Sample # SW 6148499
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 11:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05334 SDG#: DE021-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10332A34A	12/01/2010 01:04	Elizabeth J Marin	22.28
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201032723088	11/23/2010 19:54	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103300007A	12/02/2010 06:53	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 21:07	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 00:31	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103300007A	11/26/2010 12:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103330011A	12/04/2010 03:29	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103270004A	11/24/2010 18:42	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 22:36	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103330028A	12/01/2010 21:01	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103330011A	11/29/2010 16:35	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103330028A	11/30/2010 06:20	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103270004A	11/24/2010 12:30	Marie D John	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10328002	11/25/2010 23:54	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:21	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:21	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:21	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 03:21	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 20:46	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:21	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:21	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:21	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 20:46	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:21	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:21	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:21	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 20:50	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 20:46	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 14:42	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2

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

Sample Description: SL-053-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-053-SA5C-SB-3.0-4.0

LLI Sample # SW 6148499
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 11:25 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

05334 SDG#: DE021-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:42	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:42	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:42	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:01	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201A	12/08/2010 15:50	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201A	12/08/2010 15:50	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201A	12/07/2010 11:51	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10340243201A	12/07/2010 15:47	William L Hamaker Jr	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10337102201A	12/03/2010 18:29	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10341341201A	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201A	12/06/2010 14:10	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10337102201A	12/03/2010 10:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10327182105A	11/23/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10327039408A	11/23/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010 11:42	William C Schwebel	1

Sample Description: SL-066-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SB-3.0-4.0

LLI Sample # SW 6148500
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 13:35 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

06634 SDG#: DE021-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.8 U	7.8	9.3	1.08
06192	Benzene	71-43-2	0.12 U	0.12	4.6	1.08
06192	Bromobenzene	108-86-1	0.15 U	0.15	4.6	1.08
06192	Bromochloromethane	74-97-5	0.38 U	0.38	4.6	1.08
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.6	1.08
06192	Bromoform	75-25-2	0.46 U	0.46	4.6	1.08
06192	Bromomethane	74-83-9	0.29 U	0.29	4.6	1.08
06192	2-Butanone	78-93-3	1.4 U	1.4	9.3	1.08
06192	n-Butylbenzene	104-51-8	0.14 U	0.14	4.6	1.08
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.6	1.08
06192	tert-Butylbenzene	98-06-6	0.19 U	0.19	4.6	1.08
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.6	1.08
06192	Chlorobenzene	108-90-7	0.13 U	0.13	4.6	1.08
06192	Chloroethane	75-00-3	0.15 U	0.15	4.6	1.08
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.35 U	0.35	4.6	1.08
06192	Chloroform	67-66-3	0.14 U	0.14	4.6	1.08
06192	Chloromethane	74-87-3	0.38 U	0.38	4.6	1.08
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.6	1.08
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.6	1.08
06192	Chlorotrifluoroethene	79-38-9	0.58 U	0.58	5.8	1.08
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.81 U	0.81	4.6	1.08
06192	Dibromochloromethane	124-48-1	0.23 U	0.23	4.6	1.08
06192	1,2-Dibromoethane	106-93-4	0.20 U	0.20	4.6	1.08
06192	Dibromomethane	74-95-3	0.28 U	0.28	4.6	1.08
06192	1,2-Dichlorobenzene	95-50-1	0.10 U	0.10	4.6	1.08
06192	1,3-Dichlorobenzene	541-73-1	0.14 U	0.14	4.6	1.08
06192	1,4-Dichlorobenzene	106-46-7	0.19 U	0.19	4.6	1.08
06192	Dichlorodifluoromethane	75-71-8	0.14 U	0.14	4.6	1.08
06192	1,1-Dichloroethane	75-34-3	0.12 U	0.12	4.6	1.08
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.6	1.08
06192	1,1-Dichloroethene	75-35-4	0.45 U	0.45	4.6	1.08
06192	cis-1,2-Dichloroethene	156-59-2	0.22 U	0.22	4.6	1.08
06192	trans-1,2-Dichloroethene	156-60-5	0.14 U	0.14	4.6	1.08
06192	1,2-Dichloropropane	78-87-5	0.20 U	0.20	4.6	1.08
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.6	1.08
06192	2,2-Dichloropropane	594-20-7	0.20 U	0.20	4.6	1.08
06192	1,1-Dichloropropene	563-58-6	0.15 U	0.15	4.6	1.08
06192	cis-1,3-Dichloropropene	10061-01-5	0.19 U	0.19	4.6	1.08
06192	trans-1,3-Dichloropropene	10061-02-6	0.20 U	0.20	4.6	1.08
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.6	1.08
06192	Freon 113	76-13-1	0.13 U	0.13	4.6	1.08
06192	Freon 133a	75-88-7	0.58 U	0.58	5.8	1.08
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.6	1.08
06192	2-Hexanone	591-78-6	1.9 U	1.9	9.3	1.08
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.6	1.08
06192	p-Isopropyltoluene	99-87-6	0.13 U	0.13	4.6	1.08
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24 U	0.24	4.6	1.08
06192	4-Methyl-2-pentanone	108-10-1	0.45 U	0.45	9.3	1.08
06192	Methylene Chloride	75-09-2	0.28 U	0.28	4.6	1.08
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.6	1.08

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

Sample Description: SL-066-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SB-3.0-4.0

LLI Sample # SW 6148500
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 13:35 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

06634 SDG#: DE021-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.12 U	0.12	4.6	1.08
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13 U	0.13	4.6	1.08
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.27 U	0.27	4.6	1.08
06192	Tetrachloroethene	127-18-4	0.23 U	0.23	4.6	1.08
06192	Toluene	108-88-3	0.09 U	0.09	4.6	1.08
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.6	1.08
06192	1,2,4-Trichlorobenzene	120-82-1	0.21 U	0.21	4.6	1.08
06192	1,1,1-Trichloroethane	71-55-6	0.23 U	0.23	4.6	1.08
06192	1,1,2-Trichloroethane	79-00-5	0.31 U	0.31	4.6	1.08
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.6	1.08
06192	Trichlorofluoromethane	75-69-4	0.34 U	0.34	4.6	1.08
06192	1,2,3-Trichloropropane	96-18-4	0.38 U	0.38	4.6	1.08
06192	1,2,4-Trimethylbenzene	95-63-6	0.46 U	0.46	4.6	1.08
06192	1,3,5-Trimethylbenzene	108-67-8	0.12 U	0.12	4.6	1.08
06192	Vinyl Chloride	75-01-4	0.23 U	0.23	4.6	1.08
06192	m+p-Xylene	179601-23-1	0.20 U	0.20	4.6	1.08
06192	o-Xylene	95-47-6	0.20 U	0.20	4.6	1.08
GC/MS Volatiles SW-846 8260B SIM						
10326	1,4-Dioxane	123-91-1	5.0 U	5.0	15	23.19
GC/MS Semivolatiles EPA 1625C						
11622	N-Nitrosodimethylamine	62-75-9	481	18.0	35.9	1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. The internal standard peak area of n-nitrosodimethylamine-d10 was high due to matrix interference. The internal standard peak area was within QC limits but the interference caused the surrogate standard n-nitrosodimethylamine-d6 to recover outside of the advisory QC windows. The matrix interference was not observed in the re-extraction of the sample. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 33 ng/kg. The data reported here is from the initial extraction of the sample.						
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

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

Sample Description: SL-066-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SB-3.0-4.0

LLI Sample # SW 6148500
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 13:35 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

06634 SDG#: DE021-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	2-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
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	
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	0.48	J 0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72	U 0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72	U 0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72	U 0.72	1.8	1

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

Sample Description: SL-066-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SB-3.0-4.0

LLI Sample # SW 6148500
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 13:35 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

06634 SDG#: DE021-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	Benzo(g,h,i)perylene	191-24-2	0.72 U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72 U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5 U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5 U	6.5	19	1
10138	Chrysene	218-01-9	0.36 U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72 U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5 U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5 U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5 U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72 U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72 U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72 U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72 U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72 U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72 U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72 U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72 U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72 U	0.72	1.8	1
GC Volatiles TPH GRO SW-846 8015B mod						
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	0.9	21.78
Explosives SW-846 8330A						
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	81 U	81	160	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	54 U	54	160	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320	1
10132	1,3-Dinitrobenzene	99-65-0	54 U	54	160	1
10132	2,4-Dinitrotoluene	121-14-2	54 U	54	160	1
10132	2,6-Dinitrotoluene	606-20-2	54 U	54	160	1
10132	HMX	2691-41-0	130 U	130	400	1
10132	Nitrobenzene	98-95-3	54 U	54	160	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200	1
10132	2-Nitrotoluene	88-72-2	110 U	110	160	1
10132	3-Nitrotoluene	99-08-1	130 U	130	160	1
10132	4-Nitrotoluene	99-99-0	110 U	110	160	1
10132	PETN	78-11-5	1,100 U	1,100	3,200	1
10132	RDX	121-82-4	67 U	67	160	1
10132	Tetryl	479-45-8	82 U	82	160	1
10132	1,3,5-Trinitrobenzene	99-35-4	54 U	54	160	1
10132	2,4,6-Trinitrotoluene	118-96-7	54 U	54	160	1
HPLC Organics SW-846 8315A						
04173	17a Formaldehyde by 8315A	50-00-0	650 U	650	1,600	1
Pesticides/PCBs SW-846 8082						

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

Sample Description: SL-066-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SB-3.0-4.0

LLI Sample # SW 6148500
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 13:35 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

06634 SDG#: DE021-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Pesticides/PCBs						
	SW-846 8082		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	0.36 U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.36 U	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 Extractable TPH						
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C15-C20)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C21-C30)	n.a.	0.43 U	0.43	1.3	1
10199	EFH (C30 - C40)	n.a.	0.43 U	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	
10501	Ethanol	64-17-5	310 J	110	540	1
10501	Isopropanol	67-63-0	110 U	110	540	1
10501	Methanol	67-56-1	240 J	110	540	1
GC Miscellaneous						
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.4 U	5.4	13	1
08283	Ethylene glycol	107-21-1	5.4 U	5.4	13	1
08283	Propylene glycol	57-55-6	5.4 U	5.4	13	1
The samples were 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.						
Terphenyls						
	SW-846 8015B		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
Misc. Organics						
	SW-846 8315A modified		ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.2 U	2.2	5.4	1
10346	Hydrazine	302-01-2	0.54 U	0.54	2.2	1
10346	Methylhydrazine	60-34-4	2.2 U	2.2	5.4	1

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

Sample Description: SL-066-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SB-3.0-4.0

LLI Sample # SW 6148500
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 13:35 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

06634 SDG#: DE021-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	28,900	5.31	21.1	1
07914	Boron	7440-42-8	3.53 J	0.940	5.28	1
01650	Calcium	7440-70-2	13,400	6.48	21.1	1
01654	Iron	7439-89-6	41,800	24.9	106	5
01656	Lithium	7439-93-2	55.2	0.23	2.1	1
01657	Magnesium	7439-95-4	9,820	2.68	10.6	1
06958	Manganese	7439-96-5	313	0.0824	0.528	1
10145	Phosphorus	7723-14-0	452	0.592	10.6	1
01662	Potassium	7440-09-7	2,440	19.0	52.8	1
01667	Sodium	7440-23-5	646	39.4	106	1
07968	Strontium	7440-24-6	61.0	0.0655	0.528	1
06969	Tin	7440-31-5	3.22 J	1.06	10.6	1
06970	Titanium	7440-32-6	1,570	2.01	5.28	5
10146	Zirconium	7440-67-7	6.01	0.887	5.28	1
SW-846 6020						
	mg/kg		mg/kg	mg/kg		
06124	Antimony	7440-36-0	0.271	0.0640	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	16.7	0.0640	0.427	2
06126	Barium	7440-39-3	211	0.288	1.07	5
06127	Beryllium	7440-41-7	1.36	0.0171	0.107	2
06128	Cadmium	7440-43-9	0.172	0.0384	0.107	2
06131	Chromium	7440-47-3	41.3	0.128	0.427	2
06132	Cobalt	7440-48-4	12.3	0.0213	0.107	2
06133	Copper	7440-50-8	24.2	0.0704	0.427	2
06135	Lead	7439-92-1	19.0	0.0111	0.213	2
06138	Molybdenum	7439-98-7	0.404	0.0533	0.107	2
06139	Nickel	7440-02-0	27.5	0.107	0.427	2
06141	Selenium	7782-49-2	0.272 J	0.0427	0.427	2
06142	Silver	7440-22-4	0.193	0.0128	0.107	2
06145	Thallium	7440-28-0	0.478	0.0320	0.107	2
06148	Vanadium	7440-62-2	75.1	0.0235	0.107	2
06149	Zinc	7440-66-6	103	0.597	3.20	2
SW-846 7471A						
	mg/kg		mg/kg	mg/kg		
00159	Mercury	7439-97-6	0.0183 J	0.0029	0.102	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.8	0.86	1.1	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.86 U	0.86	1.6	1
EPA 314.0						
	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		
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1

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

Sample Description: SL-066-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SB-3.0-4.0

LLI Sample # SW 6148500
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 13:35 by PH

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Chantilly VA 20151

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

06634 SDG#: DE021-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		SW-846 9012B	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	
01821	Oxidation Reduction Potential	n.a.	473	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	8.27	0.0100	0.0100	1
Wet Chemistry		EPA 160.3 modified	%	%	%	
11624	28a Total Solids 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-066-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	B103191AB	11/24/2010 15:07	Chelsea B Eastep	1.08
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103282AA	11/24/2010 17:37	Jason M Long	23.19
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032723088	11/23/2010 20:03	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032723088	11/23/2010 20:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032723088	11/23/2010 20:11	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032723088	11/23/2010 20:00	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/21/2010 23:46	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 08:31	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLB026	12/03/2010 22:30	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLB026	11/29/2010 11:45	Olivia I Santiago	1

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

Sample Description: SL-066-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SB-3.0-4.0

LLI Sample # SW 6148500
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 13:35 by PH

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Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

06634 SDG#: DE021-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10332A34A	12/01/2010 01:41	Elizabeth J Marin	21.78
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201032723088	11/23/2010 19:59	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103300007A	12/02/2010 07:36	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 21:17	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 00:50	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103300007A	11/26/2010 12:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103330011A	12/04/2010 04:44	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103270004A	11/24/2010 18:57	Tracy A Cole	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 22:52	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103330028A	12/01/2010 21:44	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103330011A	11/29/2010 16:35	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103330028A	11/30/2010 06:20	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103270004A	11/24/2010 12:30	Marie D John	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10328002	11/26/2010 00:15	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:25	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:25	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:25	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 20:56	John P Hook	5
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 20:53	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:25	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:25	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:25	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 20:53	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:25	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:25	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:25	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 20:56	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 20:53	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 15:17	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2

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

Sample Description: SL-066-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-066-SA5C-SB-3.0-4.0

LLI Sample # SW 6148500
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 13:35 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

06634 SDG#: DE021-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:45	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:45	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:45	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:02	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201A	12/08/2010 16:05	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201A	12/08/2010 16:05	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201A	12/07/2010 12:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10340243201A	12/07/2010 16:08	William L Hamaker Jr	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10337102201A	12/03/2010 18:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10341341201A	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201A	12/06/2010 14:10	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10337102201A	12/03/2010 10:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10327182105A	11/23/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10327039408A	11/23/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10343162401A	12/09/2010 08:36	William C Schwebel	1

Sample Description: SL-078-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5C-SB-4.0-5.0

LLI Sample # SW 6148501
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 15:14 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

07845 SDG#: DE021-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.9 U	6.9	8.3	0.94
06192	Benzene	71-43-2	0.10 U	0.10	4.2	0.94
06192	Bromobenzene	108-86-1	0.13 U	0.13	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	0.41 U	0.41	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	8.3	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	0.14 U	0.14	4.2	0.94
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.2	0.94
06192	Chloroethane	75-00-3	0.13 U	0.13	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	0.14 U	0.14	4.2	0.94
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	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	0.40 U	0.40	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	0.13 U	0.13	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	0.14 U	0.14	4.2	0.94
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.3	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	0.40 U	0.40	8.3	0.94
06192	Methylene Chloride	75-09-2	0.25 U	0.25	4.2	0.94
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.2	0.94

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

Sample Description: SL-078-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5C-SB-4.0-5.0

LLI Sample # SW 6148501
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 15:14 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

07845 SDG#: DE021-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
06192	Styrene	100-42-5	0.10 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	0.08 U	0.08	4.2	0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	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	0.41 U	0.41	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	22.85
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	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

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

Sample Description: SL-078-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5C-SB-4.0-5.0

LLI Sample # SW 6148501
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 15:14 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

07845 SDG#: DE021-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	J 18	370	1
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	
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	0.74	U 0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 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	0.37	U 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	Fluoranthene	206-44-0	0.74	U 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	0.74	U 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

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

Sample Description: SL-078-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5C-SB-4.0-5.0

LLI Sample # SW 6148501
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 15:14 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

07845 SDG#: DE021-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	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	0.74 U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74 U	0.74	1.8	1
Perchlorate SW-846 6850 1/2007						
06557	6a Perchlorate EPA 6850	14797-73-0	2.3 U	2.3	5.5	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.55 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	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						
01643	Aluminum	7429-90-5	25,500	5.35	21.3	1
07914	Boron	7440-42-8	3.09 J	0.947	5.32	1
01650	Calcium	7440-70-2	5,170	6.52	21.3	1
01654	Iron	7439-89-6	30,100	25.0	106	5
01656	Lithium	7439-93-2	27.1	0.23	2.1	1
01657	Magnesium	7439-95-4	5,950	2.70	10.6	1
06958	Manganese	7439-96-5	232	0.0830	0.532	1
10145	Phosphorus	7723-14-0	123	0.596	10.6	1
01662	Potassium	7440-09-7	2,300	19.1	53.2	1
01667	Sodium	7440-23-5	713	39.7	106	1
07968	Strontium	7440-24-6	37.8	0.0659	0.532	1
06969	Tin	7440-31-5	2.83 J	1.06	10.6	1
06970	Titanium	7440-32-6	1,400	2.02	5.32	5
10146	Zirconium	7440-67-7	5.82	0.893	5.32	1
SW-846 6020						
06124	Antimony	7440-36-0	0.186 J	0.0644	0.215	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	8.83	0.0644	0.430	2
06126	Barium	7440-39-3	201	0.290	1.07	5
06127	Beryllium	7440-41-7	1.09	0.0172	0.107	2
06128	Cadmium	7440-43-9	0.0682 J	0.0387	0.107	2

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

Sample Description: SL-078-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5C-SB-4.0-5.0

LLI Sample # SW 6148501
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 15:14 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

07845 SDG#: DE021-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06131	Chromium	7440-47-3	32.4	0.129	0.430	2
06132	Cobalt	7440-48-4	9.60	0.0215	0.107	2
06133	Copper	7440-50-8	13.9	0.0709	0.430	2
06135	Lead	7439-92-1	10.1	0.0112	0.215	2
06138	Molybdenum	7439-98-7	0.339	0.0537	0.107	2
06139	Nickel	7440-02-0	17.9	0.107	0.430	2
06141	Selenium	7782-49-2	0.0726 J	0.0430	0.430	2
06142	Silver	7440-22-4	0.0270 J	0.0129	0.107	2
06145	Thallium	7440-28-0	0.384	0.0322	0.107	2
06148	Vanadium	7440-62-2	56.4	0.0236	0.107	2
06149	Zinc	7440-66-6	59.5	0.601	3.22	2
SW-846 7471A						
			mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.110	1
Wet Chemistry						
		EPA 300.0	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	17.9	0.88	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10 U	10	33.2	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.22 U	0.22	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	429	10.0	10.0	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.						
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	22a pH by 9045C	n.a.	7.97	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	28a Total Solids by 160.3	n.a.	9.6	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-078-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

Sample Description: SL-078-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5C-SB-4.0-5.0

LLI Sample # SW 6148501
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 15:14 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

07845 SDG#: DE021-05

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	B103191AB	11/24/2010 15:29	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103282AA	11/24/2010 17:57	Jason M Long	22.85
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032723088	11/23/2010 20:07	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032723088	11/23/2010 20:11	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032723088	11/23/2010 20:11	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032723088	11/23/2010 20:05	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 06:03	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLB026	12/03/2010 23:03	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLB026	11/29/2010 11:45	Olivia I Santiago	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103330019A	12/01/2010 17:05	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 01:08	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103330019A	11/30/2010 08:50	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:29	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:29	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:29	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 21:03	John P Hook	5
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 21:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:29	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:29	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:29	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 21:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:29	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:29	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:29	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 21:03	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 21:00	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 15:20	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:48	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2

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

Sample Description: SL-078-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-078-SA5C-SB-4.0-5.0

LLI Sample # SW 6148501
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 15:14 by PH

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

07845 SDG#: DE021-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:48	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:48	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:03	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201A	12/08/2010 16:19	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201A	12/07/2010 13:04	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10340243201A	12/07/2010 16:21	William L Hamaker Jr	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10341341201A	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201A	12/06/2010 14:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10327182105B	11/23/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10327039408A	11/23/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10340243201A	12/06/2010 20:15	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	William C Schwebel	1

Sample Description: TB-112210 Water
SSFL Area IV Collocated Soil Sampling
TB-112210

LLI Sample # WW 6148502
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 15:30

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

TB-22 SDG#: DE021-06TB*

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

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

Sample Description: TB-112210 Water
SSFL Area IV Collocated Soil Sampling
TB-112210

LLI Sample # WW 6148502
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 15:30

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

TB-22 SDG#: DE021-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B						
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
The LCS and LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: Freon 133a.						
GC/MS Volatiles SW-846 8260B SIM						
00527	1,4-Dioxane	123-91-1	0.5 U	0.5	2.0	1
GC Volatiles TPH GRO SW-8015B						
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	Y103331AA	11/29/2010 20:33	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103281AA	11/24/2010 12:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103281AA	11/24/2010 12:03	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103331AA	11/29/2010 20:33	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10334A20A	11/30/2010 15:13	Tyler O Griffin	1

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



Analysis Report

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

Page 3 of 3

Sample Description: TB-112210 Water
SSFL Area IV Collocated Soil Sampling
TB-112210

LLI Sample # WW 6148502
LLI Group # 1222508
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/22/2010 15:30

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

Submitted: 11/23/2010 10:00

Reported: 01/04/2011 16:55

TB-22 SDG#: DE021-06TB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01146	GC VOA Water Prep	SW-846 5030B	1	10334A20A	11/30/2010 15:13	Tyler O Griffin	1

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

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: B103191AB Sample number(s): 6148497, 6148499-6148501									
Acetone	6.7 U	6.7	8.0	ug/kg	125		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	98		79-120		
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	133*		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	91		70-120		
Bromomethane	0.25 U	0.25	4.0	ug/kg	73		32-162		
2-Butanone	1.2 U	1.2	8.0	ug/kg	99		46-153		
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	100		72-120		
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	102		75-120		
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	93		75-120		
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	89		69-122		
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	98		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	84		43-146		
Chloroform	0.12 U	0.12	4.0	ug/kg	97		80-120		
Chloromethane	0.33 U	0.33	4.0	ug/kg	85		54-132		
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	98		78-120		
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	99		79-120		
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	104		22-131		
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	95		58-120		
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	94		77-120		
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	94		80-120		
Dibromomethane	0.24 U	0.24	4.0	ug/kg	96		80-120		
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	98		78-120		
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	98		79-120		
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	71		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	96		71-129		
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	92		73-123		
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	96		80-120		
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	86		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	98		80-120		
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	78		72-123		
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	97		77-120		
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	89		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	98		80-120		
Freon 113	0.11 U	0.11	4.0	ug/kg	96		61-126		
Freon 133a	0.50 U	0.50	5.0	ug/kg	84		78-120		
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	99		57-120		
2-Hexanone	1.6 U	1.6	8.0	ug/kg	90		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	100		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: 01/04/11 at 04:55 PM

Group Number: 1222508

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	83		74-121		
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	93		61-134		
Methylene Chloride	0.24 U	0.24	4.0	ug/kg	85		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	106		77-120		
Styrene	0.10 U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	93		80-120		
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	101		71-123		
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	94		77-120		
Toluene	0.10 J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	96		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	93		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	86		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	95		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	79		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	98		71-128		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	100		79-120		
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	99		78-120		
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	82		53-120		
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	95		80-120		
o-Xylene	0.17 U	0.17	4.0	ug/kg	92		80-120		
Batch number: E103281AA	Sample number(s): 6148502								
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	91	100	60-132	9	30
Batch number: E103282AA	Sample number(s): 6148497, 6148499-6148501								
1,4-Dioxane	5.0 U	5.0	15	ug/kg	98	97	70-130	1	30
Batch number: Y103331AA	Sample number(s): 6148502								
Acetone	6 U	6.	20	ug/l	123	120	49-234	3	30
Benzene	0.5 U	0.5	5	ug/l	98	96	79-120	2	30
Bromobenzene	1 U	1.	5	ug/l	103	104	80-120	2	30
Bromochloromethane	1 U	1.	5	ug/l	94	92	80-120	2	30
Bromodichloromethane	1 U	1.	5	ug/l	92	97	80-120	5	30
Bromoform	1 U	1.	5	ug/l	92	93	61-120	1	30
Bromomethane	1 U	1.	5	ug/l	102	101	44-120	1	30
2-Butanone	3 U	3.	10	ug/l	105	102	66-151	3	30
n-Butylbenzene	1 U	1.	5	ug/l	102	100	74-120	2	30
sec-Butylbenzene	1 U	1.	5	ug/l	109	107	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	99	98	80-120	1	30
Carbon Tetrachloride	1 U	1.	5	ug/l	102	103	75-123	1	30
Chlorobenzene	0.8 U	0.8	5	ug/l	97	95	80-120	2	30
Chloroethane	1 U	1.	5	ug/l	92	92	49-129	0	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	108	112	56-129	4	30
Chloroform	0.8 U	0.8	5	ug/l	99	99	77-122	0	30
Chloromethane	1 U	1.	5	ug/l	89	89	60-129	0	30
2-Chlorotoluene	1 U	1.	5	ug/l	107	104	80-120	3	30
4-Chlorotoluene	1 U	1.	5	ug/l	101	98	80-120	3	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	52	50	38-136	5	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	111	113	66-120	2	30
Dibromochloromethane	1 U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dibromoethane	1 U	1.	5	ug/l	100	98	80-120	1	30
Dibromomethane	1 U	1.	5	ug/l	97	97	80-120	0	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	97	96	80-120	1	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	101	101	80-120	1	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	99	98	80-120	1	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	77	83	47-120	8	30
1,1-Dichloroethane	1 U	1.	5	ug/l	99	103	79-120	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1 U	1.	5	ug/l	99	98	70-130	0	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	108	105	74-123	2	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	98	97	80-120	0	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	98	99	80-120	1	30
1,2-Dichloropropane	1 U	1.	5	ug/l	98	98	78-120	0	30
1,3-Dichloropropane	1 U	1.	5	ug/l	100	99	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	91	93	77-124	2	30
1,1-Dichloropropene	1 U	1.	5	ug/l	100	98	80-120	2	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	88	91	80-120	3	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	92	94	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	100	99	79-120	2	30
Freon 113	2 U	2.	10	ug/l	121	119	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	76*	73*	77-120	4	30
Hexachlorobutadiene	2 U	2.	5	ug/l	96	96	58-120	1	30
2-Hexanone	3 U	3.	10	ug/l	107	106	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	98	97	77-120	2	30
p-Isopropyltoluene	1 U	1.	5	ug/l	106	104	80-120	2	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	96	100	76-120	4	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	103	105	70-121	2	30
Methylene Chloride	2 U	2.	5	ug/l	91	102	80-120	12	30
n-Propylbenzene	1 U	1.	5	ug/l	112	110	80-120	2	30
Styrene	1 U	1.	5	ug/l	98	97	80-120	1	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	99	97	80-120	2	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	111	110	71-120	1	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	97	97	80-121	1	30
Toluene	0.7 U	0.7	5	ug/l	101	99	79-120	2	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	98	97	65-120	0	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	97	96	67-120	1	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	97	99	75-127	2	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	100	98	80-120	2	30
Trichloroethene	1 U	1.	5	ug/l	94	95	80-120	1	30
Trichlorofluoromethane	2 U	2.	5	ug/l	110	110	64-129	0	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	115	109	80-120	5	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	110	106	74-120	4	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	107	105	75-120	2	30
Vinyl Chloride	1 U	1.	5	ug/l	82	83	65-125	1	30
m+p-Xylene	0.8 U	0.8	5	ug/l	94	92	80-120	2	30
o-Xylene	0.8 U	0.8	5	ug/l	97	94	80-120	3	30

Batch number: 10330SLB026

Sample number(s): 6148497-6148501

Aniline	170 U	170.	500	ug/kg	73	10-107
Benzidine	1,200 U	1,200.	3,300	ug/kg	49	15-121
Benzoic acid	170 U	170.	500	ug/kg	82	10-154
Benzyl alcohol	170 U	170.	500	ug/kg	90	68-111
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	88	79-117
Carbazole	17 U	17.	170	ug/kg	92	77-113
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	93	74-119
4-Chloroaniline	67 U	67.	170	ug/kg	55	10-110
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	87	70-118
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	81	70-104
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	80	68-131
2-Chloronaphthalene	17 U	17.	170	ug/kg	90	67-127
2-Chlorophenol	17 U	17.	170	ug/kg	87	72-112
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	94	79-110

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCS D Limits	RPD	RPD Max
Dibenzofuran	17 U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	82		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	73		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	91		75-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	118		70-130		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	76		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	74		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	93		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	91		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	89		77-111		
bis(2-Ethylhexyl)phthalate	17 U	17.	330	ug/kg	93		75-117		
Hexachlorobenzene	17 U	17.	170	ug/kg	90		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	86		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	80		68-105		
Isophorone	17 U	17.	170	ug/kg	85		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	86		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	87		66-117		
2-Nitroaniline	17 U	17.	170	ug/kg	92		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	85		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	86		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	82		56-118		
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	81		63-107		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	92		67-141		
Pentachlorophenol	170 U	170.	500	ug/kg	87		35-106		
Phenol	17 U	17.	170	ug/kg	85		58-112		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	86		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	95		78-111		
Batch number: 10333SLB026 Sample number(s): 6148497-6148501									
Acenaphthene	0.67 U	0.67	1.7	ug/kg	80		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	78		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	81		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	88		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	95		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	116		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	98		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	87		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	90		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	89		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	88		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	89		70-130		
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	96		67-143		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	87		78-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

<u>Analysis Name</u>	<u>Blank Result</u>		<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Fluorene	0.67 U		0.67	1.7	ug/kg	89		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	83		72-120		
2-Methylnaphthalene	0.67 U		0.67	1.7	ug/kg	74		62-120		
Naphthalene	0.67 U		0.67	1.7	ug/kg	77		67-120		
N-Nitrosodimethylamine	0.67 U		0.67	1.7	ug/kg	72		39-148		
Di-n-octylphthalate	6.0 U		6.0	18	ug/kg	109		55-176		
Phenanthrene	0.67 U		0.67	1.7	ug/kg	85		75-120		
Pyrene	0.67 U		0.67	1.7	ug/kg	87		56-121		
Batch number: 10333SLD026	Sample number(s): 6148497-6148500									
N-Nitrosodimethylamine	32.8 U		16.7	33.3	ng/kg	97		70-130		
Batch number: 10332A34A	Sample number(s): 6148497,6148499-6148500									
9a TPH by EPA 8015B Gas	0.2 U		0.2	1.0	mg/kg	73	77	67-119	6	30
Batch number: 10334A20A	Sample number(s): 6148502									
TPH-GRO S.CA water C5-C12	20 U		20.	50	ug/l	109	109	75-135	0	30
Batch number: 103300007A	Sample number(s): 6148497-6148500									
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	112		80-120		
2,6-Diamino-4-nitrotoluene	100 U		100.	300	ug/kg	93	96	54-134	3	30
2,4-Diamino-6-nitrotoluene	100 U		100.	300	ug/kg	93	96	54-134	3	30
1,3-Dinitrobenzene	50 U		50.	150	ug/kg	110		51-171		
2,4-Dinitrotoluene	50 U		50.	150	ug/kg	107		72-135		
2,6-Dinitrotoluene	50 U		50.	150	ug/kg	108		80-120		
HMX	130 U		130.	380	ug/kg	99		74-130		
Nitrobenzene	50 U		50.	150	ug/kg	106		80-120		
Nitroglycerin	1,000 U		1,000.	3,000	ug/kg	99		80-120		
2-Nitrotoluene	100 U		100.	150	ug/kg	111		78-128		
3-Nitrotoluene	130 U		130.	150	ug/kg	109		73-127		
4-Nitrotoluene	100 U		100.	150	ug/kg	108		80-120		
PETN	1,000 U		1,000.	3,000	ug/kg	109		80-120		
RDX	63 U		63.	150	ug/kg	104		75-131		
Tetryl	77 U		77.	150	ug/kg	112		70-168		
1,3,5-Trinitrobenzene	50 U		50.	150	ug/kg	116		77-137		
2,4,6-Trinitrotoluene	50 U		50.	150	ug/kg	108		80-120		
Batch number: 103300006A	Sample number(s): 6148497-6148500									
17a Formaldehyde by 8315A	600 U		600.	1,500	ug/kg	103		80-126		
Batch number: 103330019A	Sample number(s): 6148501									
6a Perchlorate EPA 6850	2.1 U		2.1	5.0	ug/kg	96		70-130		
Batch number: 103350002A	Sample number(s): 6148497-6148501									
Aroclor 5432	1.0 U		1.0	3.3	ug/kg					
Aroclor 5442	1.0 U		1.0	3.3	ug/kg	72*	79	75-125	9	30
Aroclor 5460	1.0 U		1.0	3.3	ug/kg					

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
PCB-1016	0.33 U	0.33	1.7	ug/kg	104		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	127		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: 103330011A	Sample number(s): 6148497-6148500								
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	90		66-113		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	96		66-113		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	101		66-113		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	96		66-113		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	85		66-113		
Batch number: 103270004A	Sample number(s): 6148497-6148500								
Ethanol	100 U	100.	500	ug/kg	112		75-112		
Isopropanol	100 U	100.	500	ug/kg	106		75-125		
Methanol	100 U	100.	500	ug/kg	121		75-134		
Batch number: 103350011A	Sample number(s): 6148497-6148500								
Diethylene glycol	5.0 U	5.0	13	mg/kg	97		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	105		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	96		75-125		
Batch number: 103330028A	Sample number(s): 6148497-6148500								
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	97		75-125		
Batch number: 10328002	Sample number(s): 6148497-6148500								
1,1-Dimethylhydrazine	2.0 U	2.0	5.0	ng/g	80	78	70-130	2	30
Hydrazine	0.50 U	0.50	2.0	ng/g	86	80	70-130	8	30
Methylhydrazine	2.0 U	2.0	5.0	ng/g	87	89	70-130	3	30
Batch number: 103281026001A	Sample number(s): 6148497-6148501								
Antimony	0.0659 J	0.0600	0.200	mg/kg	97		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	98		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	110		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	109		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.200 J	0.0660	0.400	mg/kg	100		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	103		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	109		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	110		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	111		78-122		
Batch number: 103281026001B	Sample number(s): 6148497-6148501								
Selenium	0.0400 U	0.0400	0.400	mg/kg	109		79-122		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

<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: 103281026001C Molybdenum	Sample number(s): 6148497-6148501 0.0500 U	0.0500	0.100	mg/kg	118		78-122		
Batch number: 103281026001D Barium	Sample number(s): 6148497-6148501 0.108 U	0.108	0.400	mg/kg	104		79-121		
Batch number: 103285708005 Aluminum	Sample number(s): 6148497-6148501 5.03 U	5.03	20.0	mg/kg	95		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	93		78-110		
Calcium	10.2 J	6.13	20.0	mg/kg	100		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	92		61-110		
Lithium	0.35 J	0.22	2.0	mg/kg	98		80-120		
Magnesium	9.32 J	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	1.33 J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	93		78-110		
Sodium	37.3 U	37.3	100	mg/kg	99		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	108		79-121		
Tin	1.14 J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	90		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	106		80-120		
Batch number: 103285711001 Mercury	Sample number(s): 6148497-6148501 0.0028 U	0.0028	0.0967	mg/kg	99		88-123		
Batch number: 10336336202A 7a Perchlorate EPA 314.0	Sample number(s): 6148497-6148498 9.0 U	9.0	30.0	ug/kg	99		85-115		
Batch number: 10337102201A 21a Cyanide by 9012B	Sample number(s): 6148497-6148500 0.18 U	0.18	0.50	mg/kg	105		80-120		
Batch number: 10340243201A 3a Cr VI by EPA 7199	Sample number(s): 6148497-6148501 0.20 U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10340340201A 7a Perchlorate EPA 314.0	Sample number(s): 6148499-6148501 9.0 U	9.0	30.0	ug/kg	102		85-115		
Batch number: 10341341201A 11a Anions by 300.0 - Fluoride	Sample number(s): 6148497-6148501 0.80 U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	100		90-110		
Batch number: 10327039408A 22a pH by 9045C	Sample number(s): 6148497-6148501				101		95-105		
Batch number: 10327182105A Oxidation Reduction Potential	Sample number(s): 6148497-6148500				99		98-102		
Batch number: 10327182105B Oxidation Reduction Potential	Sample number(s): 6148501				99		98-102		
Batch number: 10334162401A 28a Total Solids by 160.3	Sample number(s): 6148501				100		80-120		
Batch number: 10342162401A 28a Total Solids by 160.3	Sample number(s): 6148497-6148499				100		80-120		
Batch number: 10343162401A 28a Total Solids by 160.3	Sample number(s): 6148500				100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103191AB Sample number(s): 6148497,6148499-6148501 UNSPK: P137487									
Acetone	95	98	15-210	1	30				
Benzene	108	104	55-143	6	30				
Bromobenzene	105	102	43-139	7	30				
Bromochloromethane	139*	139*	60-137	3	30				
Bromodichloromethane	98	95	53-136	6	30				
Bromoform	87	81	38-124	9	30				
Bromomethane	67	64	42-168	7	30				
2-Butanone	86	83	37-163	7	30				
n-Butylbenzene	104	96	30-146	11	30				
sec-Butylbenzene	110	103	33-157	10	30				
tert-Butylbenzene	103	97	41-152	9	30				
Carbon Tetrachloride	98	93	45-153	8	30				
Chlorobenzene	104	98	49-135	9	30				
Chloroethane	65	62	39-152	8	30				
2-Chloroethyl Vinyl Ether	89	89	32-139	3	30				
Chloroform	105	101	61-142	7	30				
Chloromethane	70	75	51-163	4	30				
2-Chlorotoluene	104	100	42-146	8	30				
4-Chlorotoluene	105	98	39-145	10	30				
Chlorotrifluoroethene	138*	136*	70-130	4	30				
1,2-Dibromo-3-chloropropane	78	75	30-139	8	30				
Dibromochloromethane	93	89	51-128	7	30				
1,2-Dibromoethane	96	92	54-129	7	30				
Dibromomethane	101	98	57-130	6	30				
1,2-Dichlorobenzene	102	96	36-133	9	30				
1,3-Dichlorobenzene	103	98	34-134	9	30				
1,4-Dichlorobenzene	103	97	35-136	9	30				
Dichlorodifluoromethane	55	55	26-151	4	30				
1,1-Dichloroethane	102	100	63-142	5	30				
1,2-Dichloroethane	95	92	68-131	6	30				
1,1-Dichloroethene	107	103	61-149	6	30				
cis-1,2-Dichloroethene	106	103	60-136	6	30				
trans-1,2-Dichloroethene	99	95	59-142	6	30				
1,2-Dichloropropane	101	99	62-135	6	30				
1,3-Dichloropropane	97	94	58-129	6	30				
2,2-Dichloropropane	85	82	53-147	6	30				
1,1-Dichloropropene	106	103	54-145	6	30				
cis-1,3-Dichloropropene	94	91	51-131	6	30				
trans-1,3-Dichloropropene	82	80	49-129	6	30				
Ethylbenzene	104	98	44-141	8	30				
Freon 113	118	113	56-156	7	30				
Freon 133a	96	95	70-130	4	30				
Hexachlorobutadiene	110	98	10-155	14	30				
2-Hexanone	81	79	32-160	5	30				
Isopropylbenzene	104	96	38-144	10	30				

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p-Isopropyltoluene	107	99	29-152	10	30				
Methyl Tertiary Butyl Ether	87	85	55-129	5	30				
4-Methyl-2-pentanone	85	81	46-139	7	30				
Methylene Chloride	94	95	61-141	1	30				
n-Propylbenzene	109	103	39-157	9	30				
Styrene	100	95	35-134	8	30				
1,1,1,2-Tetrachloroethane	94	90	52-130	8	30				
1,1,2,2-Tetrachloroethane	94	92	40-152	6	30				
Tetrachloroethene	105	101	42-149	7	30				
Toluene	103	98	50-146	7	30				
1,2,3-Trichlorobenzene	97	92	10-140	9	30				
1,2,4-Trichlorobenzene	97	90	10-136	11	30				
1,1,1-Trichloroethane	97	94	64-142	6	30				
1,1,2-Trichloroethane	96	92	54-139	7	30				
Trichloroethene	107	103	53-144	7	30				
Trichlorofluoromethane	91	90	47-163	5	30				
1,2,3-Trichloropropane	95	91	45-154	7	30				
1,2,4-Trimethylbenzene	104	99	37-149	8	30				
1,3,5-Trimethylbenzene	105	98	38-150	10	30				
Vinyl Chloride	76	76	50-154	3	30				
m+p-Xylene	102	96	44-137	9	30				
o-Xylene	99	94	42-137	8	30				

Batch number: 10330SLB026

Sample number(s): 6148497-6148501 UNSPK: P149366

Aniline	52	65	14-114	21	30
Benzidine	28*	35	35-141	23	30
Benzoic acid	36	51	10-173	33*	30
Benzyl alcohol	82	88	55-123	7	30
4-Bromophenyl-phenylether	94	90	67-129	4	30
Carbazole	91	89	64-120	2	30
4-Chloro-3-methylphenol	82	92	53-130	12	30
4-Chloroaniline	43	45	23-95	3	30
bis(2-Chloroethoxy)methane	84	84	54-117	0	30
bis(2-Chloroethyl)ether	79	79	60-116	1	30
bis(2-Chloroisopropyl)ether	75	72	55-142	4	30
2-Chloronaphthalene	91	86	50-141	5	30
2-Chlorophenol	84	88	73-121	4	30
4-Chlorophenyl-phenylether	92	96	64-119	5	30
Dibenzofuran	91	92	71-112	2	30
1,2-Dichlorobenzene	84	81	66-108	3	30
1,3-Dichlorobenzene	83	79	63-109	4	30
1,4-Dichlorobenzene	84	83	53-113	2	30
3,3'-Dichlorobenzidine	82	58	25-123	33*	30
2,4-Dichlorophenol	89	94	78-117	6	30
2,4-Dimethylphenol	86	89	56-130	4	30
3,5-Dimethylphenol	106	113	70-130	6	30
4,6-Dinitro-2-methylphenol	29	78	10-148	91*	30
2,4-Dinitrophenol	23	56	20-143	84*	30
2,4-Dinitrotoluene	78	92	57-114	16	30
2,6-Dinitrotoluene	83	92	69-123	11	30
1,2-Diphenylhydrazine	91	85	71-129	7	30
bis(2-Ethylhexyl)phthalate	100	97	63-122	3	30
Hexachlorobenzene	97	91	61-111	6	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Hexachlorobutadiene	93	86	62-120	8	30				
Hexachlorocyclopentadiene	23	86	10-153	117*	30				
Hexachloroethane	67	80	57-109	17	30				
Isophorone	83	82	51-118	0	30				
2-Methylphenol	79	85	47-142	7	30				
4-Methylphenol	76	84	55-126	11	30				
2-Nitroaniline	92	91	67-125	1	30				
3-Nitroaniline	90	88	59-122	2	30				
4-Nitroaniline	76	68	52-112	10	30				
Nitrobenzene	85	83	51-114	3	30				
2-Nitrophenol	84	89	74-115	5	30				
4-Nitrophenol	74	79	39-133	6	30				
N-Nitroso-di-n-propylamine	75	77	60-116	3	30				
N-Nitrosodiphenylamine	97	91	86-145	7	30				
Pentachlorophenol	87	81	17-149	7	30				
Phenol	74	79	58-126	6	30				
1,2,4-Trichlorobenzene	92	89	72-115	4	30				
2,4,5-Trichlorophenol	92	94	34-139	2	30				
2,4,6-Trichlorophenol	97	94	49-140	2	30				

Batch number: 10333SLB026 Sample number(s): 6148497-6148501 UNSPK: 6148497

Acenaphthene	80	80	63-105	1	30
Acenaphthylene	83	82	55-126	2	30
Anthracene	83	83	46-136	0	30
Benzo(a)anthracene	89	91	39-144	2	30
Benzo(a)pyrene	99	100	34-156	1	30
Benzo(b)fluoranthene	108	109	43-155	1	30
Benzo(g,h,i)perylene	59	57	33-141	3	30
Benzo(k)fluoranthene	106	108	42-144	2	30
Butylbenzylphthalate	89	89	73-140	0	30
Di-n-butylphthalate	101	98	78-160	3	30
Chrysene	88	89	29-156	1	30
Dibenz(a,h)anthracene	69	67	41-130	3	30
Diethylphthalate	94	92	87-131	2	30
Dimethylphthalate	94	93	74-118	1	30
Bis(2-Ethylhexyl)phthalate	105	102	39-167	4	30
Fluoranthene	91	92	26-166	1	30
Fluorene	88	87	45-121	0	30
Indeno(1,2,3-cd)pyrene	67	66	21-143	2	30
1-Methylnaphthalene	88	87	72-123	1	30
2-Methylnaphthalene	77	76	28-121	1	30
Naphthalene	84	80	61-102	5	30
N-Nitrosodimethylamine	-6*	-11*	48-113	19	30
Di-n-octylphthalate	116	118	40-192	1	30
Phenanthrene	81	83	12-165	2	30
Pyrene	78	81	15-153	4	30

Batch number: 10333SLD026 Sample number(s): 6148497-6148500 UNSPK: P144599

N-Nitrosodimethylamine	100	105	70-130	5	30

Batch number: 10334A20A Sample number(s): 6148502 UNSPK: P149948

TPH-GRO S.CA water C5-C12	122		63-154		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103300007A	Sample number(s): 6148497-6148500 UNSPK: 6148497								
4-Amino-2,6-Dinitrotoluene	106	108	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	109	111	80-137	2	50				
1,3-Dinitrobenzene	108	110	38-166	2	50				
2,4-Dinitrotoluene	106	107	80-131	1	50				
2,6-Dinitrotoluene	110	110	80-127	1	50				
HMX	97	99	63-128	2	50				
Nitrobenzene	109	108	80-125	1	50				
Nitroglycerin	104	106	80-120	2	50				
2-Nitrotoluene	111	113	80-122	1	50				
3-Nitrotoluene	110	111	72-119	1	50				
4-Nitrotoluene	108	110	80-125	2	50				
PETN	108	110	80-121	2	50				
RDX	93	94	75-129	1	50				
Tetryl	105	108	55-174	3	50				
1,3,5-Trinitrobenzene	115	115	82-126	0	50				
2,4,6-Trinitrotoluene	106	108	82-130	2	50				
Batch number: 103300006A	Sample number(s): 6148497-6148500 UNSPK: P144599								
17a Formaldehyde by 8315A	98	101	80-120	3	50				
Batch number: 103330019A	Sample number(s): 6148501 UNSPK: P147113								
6a Perchlorate EPA 6850	102	160*	70-130	44*	30				
Batch number: 103350002A	Sample number(s): 6148497-6148501 UNSPK: P149366								
PCB-1016	82	99	29-146	19	50				
PCB-1260	96	109	39-149	12	50				
Batch number: 103330011A	Sample number(s): 6148497-6148500 UNSPK: 6148499								
EFH (C12-C14)	77	80	49-123	3	20				
EFH (C15-C20)	90	96	49-123	6	20				
EFH (C21-C30)	103	108	49-123	5	20				
EFH (C30 - C40)	114	102	49-123	11	20				
EFH (C8-C11)	73	58	49-123	22*	20				
Batch number: 103270004A	Sample number(s): 6148497-6148500 UNSPK: P144599								
Ethanol	92	85	24-143	8	20				
Isopropanol	87	82	75-125	7	20				
Methanol	103	92	45-136	12	20				
Batch number: 103350011A	Sample number(s): 6148497-6148500 UNSPK: P144599								
Diethylene glycol	49*	79	59-109	47*	20				
Ethylene glycol	86	101	63-107	16	20				
Propylene glycol	79	94	63-107	17	20				
Batch number: 103330028A	Sample number(s): 6148497-6148500 UNSPK: 6148497								
m-Terphenyl	89	89	75-125	0	20				
o-Terphenyl	92	92	75-125	1	20				
p-Terphenyl	89	90	75-125	1	20				
Batch number: 10328002	Sample number(s): 6148497-6148500 UNSPK: 6145766								
1,1-Dimethylhydrazine	41	52	10-116	23	30				
Hydrazine	9*	8*	11-102	5	30				

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Methylhydrazine	21	25	10-92	19	30				
Batch number: 103281026001A	Sample number(s): 6148497-6148501 UNSPK: P149366 BKG: P149366								
Antimony	37*	33*	75-125	9	20	0.169 J	0.114 J	39* (1)	20
Arsenic	135*	104	75-125	9	20	4.69	4.34	8	20
Beryllium	91	83	75-125	5	20	0.554	0.495	11	20
Cadmium	109	113	75-125	3	20	0.0533 J	0.0457 J	15 (1)	20
Chromium	114	70*	75-125	18	20	15.2	14.3	6	20
Cobalt	106	87	75-125	18	20	5.85	5.43	8	20
Copper	111	79	75-125	21*	20	5.53	5.56	0	20
Lead	146*	89	75-125	20	20	4.85	4.71	3	20
Nickel	117	73*	75-125	23*	20	9.20	8.44	9	20
Silver	124	101	75-125	20	20	0.0199 J	0.0117 U	200* (1)	20
Thallium	126*	91	75-125	19	20	0.278	0.270	3 (1)	20
Vanadium	115	18*	75-125	24*	20	33.2	30.4	9	20
Zinc	145 (2)	51 (2)	75-125	15	20	51.3	48.1	6	20
Batch number: 103281026001B	Sample number(s): 6148497-6148501 UNSPK: P149366 BKG: P149366								
Selenium	125	106	75-125	15	20	0.118 J	0.0623 J	62* (1)	20
Batch number: 103281026001C	Sample number(s): 6148497-6148501 UNSPK: P149366 BKG: P149366								
Molybdenum	114	97	75-125	16	20	0.171	0.174	2 (1)	20
Batch number: 103281026001D	Sample number(s): 6148497-6148501 UNSPK: P149366 BKG: P149366								
Barium	-9 (2)	-294 (2)	75-125	24*	20	132	101	27*	20
Batch number: 103285708005	Sample number(s): 6148497-6148501 UNSPK: P149366 BKG: P149366								
Aluminum	940 (2)	1353 (2)	75-125	5	20	12,000	12,300	3	20
Boron	97	97	84-115	1	20	0.975 J	0.864 U	200* (1)	20
Calcium	224 (2)	199 (2)	75-125	3	20	2,520	2,650	5	20
Iron	407 (2)	1166 (2)	75-125	4	20	18,800	19,400	3	20
Lithium	99	101	82-114	0	20	24.2	26.2	8	20
Magnesium	175 (2)	261 (2)	75-125	3	20	4,550	4,730	4	20
Manganese	85 (2)	120 (2)	75-125	6	20	240	277	14	20
Phosphorus	112	114	75-125	0	20	216	226	5	20
Potassium	112	130*	75-125	5	20	1,640	1,680	3	20
Sodium	105	105	75-125	1	20	284	299	5 (1)	20
Strontium	102	103	75-115	1	20	21.8	24.0	10	20
Tin	91	90	80-110	3	20	2.31 J	2.38 J	3 (1)	20
Titanium	445 (2)	344 (2)	75-125	7	20	1,150	1,180	2	20
Zirconium	101	101	75-125	2	20	4.13 J	4.87	17 (1)	20
Batch number: 103285711001	Sample number(s): 6148497-6148501 UNSPK: P149366 BKG: P149366								
Mercury	106	99	65-135	5	20	0.0028 U	0.0027 U	0 (1)	20
Batch number: 10336336202A	Sample number(s): 6148497-6148498 UNSPK: P144599 BKG: P144599								
7a Perchlorate EPA 314.0	121*		80-120			9.0 U	9.0 U	0 (1)	15
Batch number: 10337102201A	Sample number(s): 6148497-6148500 UNSPK: P147114 BKG: P147114								
21a Cyanide by 9012B	112		75-125			0.18 U	0.18 U	0 (1)	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10340243201A 3a Cr VI by EPA 7199	Sample number(s): 6148497-6148501 93		75-125	UNSPK: P144589		BKG: P144589 0.32 J	0.48 J	42* (1)	20
Batch number: 10340340201A 7a Perchlorate EPA 314.0	Sample number(s): 6148499-6148501 114		80-120	UNSPK: P149366		BKG: P149366 9.0 U	9.0 U	0 (1)	15
Batch number: 10341341201A 11a Anions by 300.0 - Fluoride	Sample number(s): 6148497-6148501 64*		80-120	UNSPK: P147114		BKG: P147114 8.8	6.3	33*	20
11a Anions by 300.0 - Nitrate	91		80-120			1.4 J	1.4 J	4 (1)	20
Batch number: 10327039408A 22a pH by 9045C	Sample number(s): 6148497-6148501			BKG: P147113		7.27	7.27	0	1
Batch number: 10327182105A Oxidation Reduction Potential	Sample number(s): 6148497-6148500			BKG: P147057		317	316	0	6
Batch number: 10327182105B Oxidation Reduction Potential	Sample number(s): 6148501			BKG: 6148501		429	430	0	6
Batch number: 10334162401A 28a Total Solids by 160.3	Sample number(s): 6148501			BKG: P149366		4.3	4.1	4	20
Batch number: 10342162401A 28a Total Solids by 160.3	Sample number(s): 6148497-6148499			BKG: P149363		10	9.8	2	20
Batch number: 10343162401A 28a Total Solids by 160.3	Sample number(s): 6148500			BKG: 6148500		7.2	7.0	2	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: B103191AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6148497	101	112	95	91
6148499	98	101	97	89
6148500	100	106	96	90
6148501	99	105	97	89
Blank	97	100	97	89
LCS	95	104	99	94
MS	101	101	98	97
MSD	100	100	98	96

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

Analysis Name: 14b 1,4-Dioxane by 8260B SIM

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

Surrogate Quality Control

Batch number: E103281AA
Toluene-d8

6148502	101
Blank	99
LCS	100
LCSD	100

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103282AA
Toluene-d8

6148497	99
6148499	100
6148500	99
6148501	99
Blank	100
LCS	99
LCSD	99

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103331AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6148502	99	98	105	99
Blank	99	98	104	99
LCS	100	100	106	104
LCSD	100	97	104	103

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

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10330SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6148497	75	80	75	77	88	79
6148498	78	84	82	80	92	88
6148499	79	84	85	79	93	87
6148500	85	89	100	82	88	82
6148501	78	83	82	79	93	86
Blank	80	84	86	80	85	78
LCS	89	91	97	84	89	86
MS	84	88	90	85	95	84
MSD	88	91	98	82	89	88

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

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10333SLB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6148497	79	89	88
6148498	70	81	82

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

Surrogate Quality Control

6148499	73	83	98
6148500	71	82	90
6148501	71	79	82
Blank	76	81	103
LCS	74	78	83
MS	77	84	77
MSD	74	81	80

Limits:	40-130	45-130	45-135

Analysis Name: 19a NDMA by 1625C
Batch number: 10333SLD026
N-Nitrosodimethylamine-
d6

6148497	90
6148498	60
6148499	85
6148500	47*
Blank	90
LCS	69
MS	72
MSD	66

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Gas
Batch number: 10332A34A
Trifluorotoluene-F

6148497	87
6148499	86
6148500	82
Blank	103
LCS	98
LCSD	105

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas
Batch number: 10334A20A
Trifluorotoluene-F

6148502	83
Blank	84
LCS	111
LCSD	107
MS	139*

Limits: 63-135

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103300006A
Butyraldehyde

6148497	97
6148498	101

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

Surrogate Quality Control

6148499 97
6148500 99
Blank 101
LCS 101
MS 95
MSD 99

Limits: 64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 103300007A
2-Nitro-m-xylene

6148497 102
6148498 117
6148499 118
6148500 107
Blank 129
LCS 116
LCSD 117
MS 116
MSD 125

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103350002A
Tetrachloro-m-xylene Decachlorobiphenyl

6148497	66	65
6148498	83	96
6148499	104	110
6148500	96	101
6148501	95	101
Blank	103	111
LCS	110	119
LCSD	95	103
MS	75	91
MSD	110	103

Limits: 53-139 45-120

Analysis Name: 25a Alcohols by 8015B
Batch number: 103270004A
Acetone

6148497 86
6148498 85
6148499 90
6148500 91
Blank 98
LCS 97
MS 82
MSD 82

Limits: 42-138

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222508

Surrogate Quality Control

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel

Batch number: 103330011A

	Chlorobenzene	Orthoterphenyl
6148497	74	77
6148498	70	81
6148499	76	82
6148500	74	79
Blank	78	84
LCS	82	88
MS	81	86
MSD	79	86

Limits: 37-125 47-145

Analysis Name: 26a Terphenyls by 8015B

Batch number: 103330028A

n-Triacontane-d62

6148497	96
6148498	109
6148499	101
6148500	97
Blank	106
LCS	103
MS	96
MSD	96

Limits: 50-150

Analysis Name: 27a Glycols by 8015B

Batch number: 103350011A

Tetramethylene glycol

6148497	81
6148498	80
6148499	42*
6148500	78
Blank	116
LCS	99
MS	75
MSD	86

Limits: 50-119

*- Outside of specification

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

13013 1222508 6148497-502

CHAIN OF CUSTODY RECORD

CDM		SSFL AREA IV COLLOCATED SOIL SAMPLING																							Other Instructions and Notes			
NOTES:							VOCs/EPA 8260B	1,4-Dioxane EPA 8260S/M	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-EFH EPA 8015B Mod.	TPH-GRO EPA 8015B	*Metals EPA 6010/6020B&7471A	*Hex Chrome EPA 7199	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B		**pH EPA 9045C	**Alcohols/Glycols EPA 8015B	**Terphenyls EPA 8015B
*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>Pamela Hartman</i>																												
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																							
SL-050-SA5C-SB-4.5	11.22.10	1015	soil	none	5 Encore samplers	X	X				X																	
SL-050-SA5C-SB-4.0-5.0	11.22.10	1020	soil	none	2 - 16 oz. jars			X				X	X	X	X	X	X											
SL-050-SA5C-SB-4.0-5.0	11.22.10	1020	soil	none	1 - 16 oz. jar														X	X		X	X	X	X		X	
SL-050-SA5C-SB-4.0-5.0	11.22.10	1020	soil	none	3 - 4 oz. jars				X																	X		
SL-050-SA5C-SB-4.0-5.0	11.22.10	1020	soil	none	1 - 4 oz. amber jar																X							
SL-050-SA5C-SB-9.0-10.0	11.22.10	1025	soil	none	2 - 16 oz. jars			X				X	X	X	X	X	X											
SL-050-SA5C-SB-9.0-10.0	11.22.10	1025	soil	none	1 - 16 oz. jar														X	X		X	X	X	X		X	
SL-050-SA5C-SB-9.0-10.0	11.22.10	1025	soil	none	3 - 4 oz. jars				X																	X		
SL-050-SA5C-SB-9.0-10.0	11.22.10	1025	soil	none	1 - 4 oz. amber jar																X							
SL-053-SA5C-SB-3.5	11.22.10	1120	soil	none	5 Encore samplers	X	X				X																	
SL-053-SA5C-SB-3.0-4.0	11.22.10	1125	soil	none	2 - 16 oz. jars			X				X	X	X	X	X	X											
SL-053-SA5C-SB-3.0-4.0	11.22.10	1125	soil	none	1 - 16 oz. jar														X	X		X	X	X	X		X	
SL-053-SA5C-SB-3.0-4.0	11.22.10	1125	soil	none	3 - 4 oz. jars				X																	X		
SL-053-SA5C-SB-3.0-4.0	11.22.10	1125	soil	none	1 - 4 oz. amber jar																X							
SL-066-SA5C-SB-3.5	11.22.10	1330	soil	none	5 Encore samplers	X	X				X																	
SL-078-SA5C-SB-4.5	11.22.10	1510	soil	none	4 Encore samplers	X	X																					
TB-112210	11.22.10	1530	water	HCl	4 - 40 ml VOAs	X	X				X																	
Relinquished by: (Signature) <i>Jully Samantoni</i>		Date/Time 11.22.10 1630		Received for Laboratory by: (Signature) <i>[Signature]</i>		Date/Time 11/23/10 1000																				Laboratory: Lancaster Laboratories, Inc.		
Received by: (Signature) <i>FedEx</i>		Date/Time		Airbill No. 00732992		Tracking Number 869514314650																				Cooler 1		

6148497-502

[illegible]

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

January 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/24/2010
Group Number: 1222698
SDG: DE022
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>
DUP09-SA5C-QC-112310 Soil	6149361
SL-060-SA5C-SB-4.0-5.0 Soil	6149362
SL-060-SA5C-SB-9.0-10.0 Soil	6149363
SL-076-SA5C-SB-3.0-4.0 Soil	6149364
SL-077-SA5C-SB-3.0-4.0 Soil	6149365
SL-065-SA5C-SB-2.5-3.5 Soil	6149366
SL-065-SA5C-SB-2.5-3.5MS Soil	6149367
SL-065-SA5C-SB-2.5-3.5MSD Soil	6149368
SL-065-SA5C-SB-2.5-3.5DUP Soil	6149369
SL-062-SA5C-SB-2.5-3.5 Soil	6149370
EB10-SA5C-112310 Water	6149371
TB-112310 Water	6149372

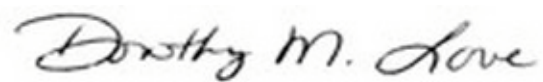
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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

Attn: Todd Burgess

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

Respectfully Submitted,



Dorothy M. Love
Group Leader

Sample Description: DUP09-SA5C-QC-112310 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5C-QC-112310

LLI Sample # SW 6149361
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:41 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

DUP09 SDG#: DE022-01FD

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	bis(2-Ethylhexyl)phthalate	117-81-7	18	J 17	350		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

*=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: DUP09-SA5C-QC-112310 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5C-QC-112310

LLI Sample # SW 6149361
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:41 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

DUP09 SDG#: DE022-01FD

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	17	U 17	170		1
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	0.70 U	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70 U	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70 U	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	0.35 U	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	Fluoranthene	206-44-0	0.70 U	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	0.70 U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70 U	0.70	1.7		1
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	0.54 U	0.54	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	0.35 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.							
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	13,500	5.16	20.5		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: DUP09-SA5C-QC-112310 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5C-QC-112310

LLI Sample # SW 6149361
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:41 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

DUP09 SDG#: DE022-01FD

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	1.59 J	0.913	5.13		1
01650	Calcium	7440-70-2	3,320	6.29	20.5		1
01654	Iron	7439-89-6	20,100	4.83	20.5		1
01656	Lithium	7439-93-2	24.8	0.23	2.1		1
01657	Magnesium	7439-95-4	4,780	2.60	10.3		1
06958	Manganese	7439-96-5	250	0.0800	0.513		1
10145	Phosphorus	7723-14-0	230	0.574	10.3		1
01662	Potassium	7440-09-7	1,750	18.5	51.3		1
01667	Sodium	7440-23-5	334	38.3	103		1
07968	Strontium	7440-24-6	23.5	0.0636	0.513		1
06969	Tin	7440-31-5	2.46 J	1.03	10.3		1
06970	Titanium	7440-32-6	1,160	1.95	5.13		5
10146	Zirconium	7440-67-7	4.89 J	0.861	5.13		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0754 J	0.0603	0.201		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	4.07	0.0603	0.402		2
06126	Barium	7440-39-3	120	0.109	0.402		2
06127	Beryllium	7440-41-7	0.540	0.0161	0.101		2
06128	Cadmium	7440-43-9	0.0653 J	0.0362	0.101		2
06131	Chromium	7440-47-3	17.0	0.121	0.402		2
06132	Cobalt	7440-48-4	5.27	0.0201	0.101		2
06133	Copper	7440-50-8	6.55	0.0664	0.402		2
06135	Lead	7439-92-1	4.68	0.0105	0.201		2
06138	Molybdenum	7439-98-7	0.232	0.0503	0.101		2
06139	Nickel	7440-02-0	9.48	0.101	0.402		2
06141	Selenium	7782-49-2	0.0606 J	0.0402	0.402		2
06142	Silver	7440-22-4	0.0159 J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.234	0.0302	0.101		2
06148	Vanadium	7440-62-2	32.2	0.0221	0.101		2
06149	Zinc	7440-66-6	51.7	0.563	3.02		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.101		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	8.3	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	31.4		1
	SW-846 7199		mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.30 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: DUP09-SA5C-QC-112310 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5C-QC-112310

LLI Sample # SW 6149361
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:41 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

DUP09 SDG#: DE022-01FD

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.	509	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.	7.45	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	4.4	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

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	10330SLB026	12/03/2010 08:57	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010 04:00	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010 10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 01:27	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:40	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 03:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 21:06	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 21:06	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:40	John W Yanzuk II	1

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

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Sample Description: DUP09-SA5C-QC-112310 Soil
SSFL Area IV Collocated Soil Sampling
DUP09-SA5C-QC-112310

LLI Sample # SW 6149361
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:41 by PH

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Chantilly VA 20151

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

DUP09 SDG#: DE022-01FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 21:10	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 21:06	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 14:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	12/01/2010 13:54	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:04	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10337337202A	12/06/2010 17:59	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201A	12/07/2010 13:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 17:24	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10337337202A	12/03/2010 13:25	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201A	12/06/2010 14:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10328182101A	11/24/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10328039401A	11/24/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	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-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-4.0-5.0

LLI Sample # SW 6149362
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:05 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06045 SDG#: DE022-02

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	6.9 U	6.9	8.3		0.97
06192	Benzene	71-43-2	0.10 U	0.10	4.1		0.97
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1		0.97
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1		0.97
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1		0.97
06192	Bromoform	75-25-2	0.41 U	0.41	4.1		0.97
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1		0.97
06192	2-Butanone	78-93-3	1.3 U	1.3	8.3		0.97
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1		0.97
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1		0.97
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.1		0.97
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1		0.97
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1		0.97
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1		0.97
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1		0.97
06192	Chloroform	67-66-3	0.12 U	0.12	4.1		0.97
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1		0.97
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1		0.97
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1		0.97
06192	Chlorotrifluoroethene	79-38-9	0.52 U	0.52	5.2		0.97
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.72 U	0.72	4.1		0.97
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.1		0.97
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.1		0.97
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1		0.97
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1		0.97
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1		0.97
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.1		0.97
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1		0.97
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1		0.97
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.1		0.97
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1		0.97
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.1		0.97
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1		0.97
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.1		0.97
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1		0.97
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.1		0.97
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1		0.97
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.1		0.97
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.1		0.97
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1		0.97
06192	Freon 113	76-13-1	0.11 U	0.11	4.1		0.97
06192	Freon 133a	75-88-7	0.52 U	0.52	5.2		0.97
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1		0.97
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.3		0.97
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1		0.97
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1		0.97
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.1		0.97
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.3		0.97
06192	Methylene Chloride	75-09-2	0.25 U	0.25	4.1		0.97
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1		0.97

*=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-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-4.0-5.0

LLI Sample # SW 6149362
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:05 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06045 SDG#: DE022-02

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	Styrene	100-42-5	0.10 U	0.10	4.1		0.97
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1		0.97
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1		0.97
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.1		0.97
06192	Toluene	108-88-3	0.08 U	0.08	4.1		0.97
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1		0.97
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.1		0.97
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.1		0.97
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1		0.97
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.1		0.97
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1		0.97
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1		0.97
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1		0.97
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1		0.97
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.1		0.97
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.1		0.97
06192	o-Xylene	95-47-6	0.18 U	0.18	4.1		0.97
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.4 U	5.4	16		25.25
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	124	17.8	35.7		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 28 ng/kg. The data reported here is from the initial extraction of the sample.							
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

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

Sample Description: SL-060-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-4.0-5.0

LLI Sample # SW 6149362
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:05 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06045 SDG#: DE022-02

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	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
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	21	J 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	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

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Sample Description: SL-060-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-4.0-5.0

LLI Sample # SW 6149362
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:05 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06045 SDG#: DE022-02

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	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
10138	1-Methylnaphthalene	90-12-0	0.71 U	0.71	1.8		1
10138	2-Methylnaphthalene	91-57-6	0.71 U	0.71	1.8		1
10138	Naphthalene	91-20-3	0.71 U	0.71	1.8		1
10138	N-Nitrosodimethylamine	62-75-9	0.71 U	0.71	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.4 U	6.4	19		1
10138	Phenanthrene	85-01-8	0.71 U	0.71	1.8		1
10138	Pyrene	129-00-0	0.71 U	0.71	1.8		1
GC Volatiles TPH GRO SW-846 8015B mod							
			mg/kg	mg/kg	mg/kg	mg/kg	
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.1		25.1
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		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	53 U	53	160		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320		1
10132	1,3-Dinitrobenzene	99-65-0	53 U	53	160		1
10132	2,4-Dinitrotoluene	121-14-2	53 U	53	160		1
10132	2,6-Dinitrotoluene	606-20-2	53 U	53	160		1
10132	HMX	2691-41-0	130 U	130	400		1
10132	Nitrobenzene	98-95-3	53 U	53	160		1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200		1
10132	2-Nitrotoluene	88-72-2	110 U	110	160		1
10132	3-Nitrotoluene	99-08-1	130 U	130	160		1
10132	4-Nitrotoluene	99-99-0	110 U	110	160		1
10132	PETN	78-11-5	1,100 U	1,100	3,200		1
10132	RDX	121-82-4	67 U	67	160		1
10132	Tetryl	479-45-8	82 U	82	160		1
10132	1,3,5-Trinitrobenzene	99-35-4	53 U	53	160		1
10132	2,4,6-Trinitrotoluene	118-96-7	53 U	53	160		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

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

Sample Description: SL-060-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-4.0-5.0

LLI Sample # SW 6149362
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:05 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06045 SDG#: DE022-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
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	0.35 U	0.35	1.8		1
10225	PCB-1260	11096-82-5	0.35 U	0.35	1.8		1
10225	PCB-1262	37324-23-5	0.35 U	0.35	1.8		1
10225	PCB-1268	11100-14-4	0.35 U	0.35	1.8		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
GC Extractable TPH		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.43 U	0.43	1.3		1
10199	EFH (C15-C20)	n.a.	0.43 U	0.43	1.3		1
10199	EFH (C21-C30)	n.a.	0.43 U	0.43	1.3		1
10199	EFH (C30 - C40)	n.a.	1.1 J	0.43	1.3		1
10199	EFH (C8-C11)	n.a.	0.43 U	0.43	1.3		1
GC Miscellaneous		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U	110	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
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	
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
Misc. Organics		SW-846 8315A modified	ng/g	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.1 U	2.1	5.3		1
10346	Hydrazine	302-01-2	0.53 U	0.53	2.1		1
10346	Methylhydrazine	60-34-4	2.1 U	2.1	5.3		1
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,000	5.27	21.0		1
07914	Boron	7440-42-8	3.98 J	0.933	5.24		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-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-4.0-5.0

LLI Sample # SW 6149362
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:05 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06045 SDG#: DE022-02

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	
01650	Calcium	7440-70-2	2,040	6.43	21.0		1
01654	Iron	7439-89-6	16,900	4.94	21.0		1
01656	Lithium	7439-93-2	20.9	0.23	2.1		1
01657	Magnesium	7439-95-4	3,810	2.66	10.5		1
06958	Manganese	7439-96-5	309	0.0818	0.524		1
10145	Phosphorus	7723-14-0	521	0.587	10.5		1
01662	Potassium	7440-09-7	3,350	18.9	52.4		1
01667	Sodium	7440-23-5	90.9 J	39.1	105		1
07968	Strontium	7440-24-6	18.1	0.0650	0.524		1
06969	Tin	7440-31-5	2.05 J	1.05	10.5		1
06970	Titanium	7440-32-6	1,200	1.99	5.24		5
10146	Zirconium	7440-67-7	3.19 J	0.881	5.24		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0959 J	0.0629	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	3.78	0.0629	0.419		2
06126	Barium	7440-39-3	121	0.113	0.419		2
06127	Beryllium	7440-41-7	0.520	0.0168	0.105		2
06128	Cadmium	7440-43-9	0.195	0.0377	0.105		2
06131	Chromium	7440-47-3	20.4	0.126	0.419		2
06132	Cobalt	7440-48-4	6.26	0.0210	0.105		2
06133	Copper	7440-50-8	11.4	0.0692	0.419		2
06135	Lead	7439-92-1	5.52	0.0109	0.210		2
06138	Molybdenum	7439-98-7	0.622	0.0524	0.105		2
06139	Nickel	7440-02-0	12.3	0.105	0.419		2
06141	Selenium	7782-49-2	0.159 J	0.0419	0.419		2
06142	Silver	7440-22-4	0.0215 J	0.0126	0.105		2
06145	Thallium	7440-28-0	0.288	0.0315	0.105		2
06148	Vanadium	7440-62-2	36.0	0.0231	0.105		2
06149	Zinc	7440-66-6	62.8	0.587	3.15		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.0999		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	1.0 J	0.86	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.2	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	0.40 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-060-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-4.0-5.0

LLI Sample # SW 6149362
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:05 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06045 SDG#: DE022-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry							
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.52	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	553	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.	6.01	0.0100	0.0100	Std. Units	1
Wet Chemistry							
EPA 160.3 modified							
11624	28a Total Solids 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-060-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	B103191BB	11/24/2010 18:45	Kristen D Pelliccia	0.97
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103312AA	11/27/2010 18:24	Sara E Johnson	25.25
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032823096	11/24/2010 16:32	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	1	201032823096	11/24/2010 17:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH2O Encore Prep	SW-846 5035	2	201032823096	11/24/2010 17:04	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032823096	11/24/2010 16:29	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/22/2010 00:20	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 09:23	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010 04:33	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010 10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	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-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-4.0-5.0

LLI Sample # SW 6149362
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:05 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06045 SDG#: DE022-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10332A34A	12/01/2010 02:17	Elizabeth J Marin	25.1
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201032823096	11/24/2010 16:28	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103300007A	12/02/2010 09:43	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 21:26	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 01:45	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103300007A	11/26/2010 12:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103330011A	12/04/2010 05:09	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103330001A	11/29/2010 20:34	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103340009A	11/30/2010 19:00	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103330028A	12/01/2010 22:27	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103330011A	11/29/2010 16:35	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103330028A	11/30/2010 06:20	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103340009A	11/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103330001A	11/29/2010 14:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10334001	12/01/2010 02:18	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:44	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:44	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:44	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 03:44	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 21:23	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:44	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:44	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:44	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 21:23	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:44	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:44	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:44	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 21:13	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 21:23	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 15:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2

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

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

Sample Description: SL-060-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-4.0-5.0

LLI Sample # SW 6149362
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:05 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06045 SDG#: DE022-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 15:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 15:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 15:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:06	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201A	12/08/2010 16:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201A	12/08/2010 16:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201A	12/17/2010 16:43	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 17:37	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10337102201A	12/03/2010 18:31	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	2	10341341201A	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201A	12/06/2010 14:10	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10337102201A	12/03/2010 10:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10328182101A	11/24/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10328039401A	11/24/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010 11:42	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-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-9.0-10.0

LLI Sample # SW 6149363
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:10 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06091 SDG#: DE022-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	164	18.5	37.0		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 37 ng/kg. The data reported here is from the initial extraction of the sample.							
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
04688	bis(2-Ethylhexyl)phthalate	117-81-7	24	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

*=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-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-9.0-10.0

LLI Sample # SW 6149363
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:10 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06091 SDG#: DE022-03

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	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
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
Explosives	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U 83	170		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56	U 56	170		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330		1
10132	1,3-Dinitrobenzene	99-65-0	56	U 56	170		1
10132	2,4-Dinitrotoluene	121-14-2	56	U 56	170		1
10132	2,6-Dinitrotoluene	606-20-2	56	U 56	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-060-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-9.0-10.0

LLI Sample # SW 6149363
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:10 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06091 SDG#: DE022-03

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	HMX	2691-41-0	140	U 140	420		1
10132	Nitrobenzene	98-95-3	56	U 56	170		1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300		1
10132	2-Nitrotoluene	88-72-2	110	U 110	170		1
10132	3-Nitrotoluene	99-08-1	140	U 140	170		1
10132	4-Nitrotoluene	99-99-0	110	U 110	170		1
10132	PETN	78-11-5	1,100	U 1,100	3,300		1
10132	RDX	121-82-4	69	U 69	170		1
10132	Tetryl	479-45-8	85	U 85	170		1
10132	1,3,5-Trinitrobenzene	99-35-4	56	U 56	170		1
10132	2,4,6-Trinitrotoluene	118-96-7	56	U 56	170		1
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	0.37	U 0.37	1.9		1
10225	PCB-1260	11096-82-5	0.50	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.	0.44	U 0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U 0.44	1.3		1
10199	EFH (C21-C30)	n.a.	2.5	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	7.0	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	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
GC Miscellaneous							
	SW-846 8015B modified		mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	6.7	U 6.7	14		1
08283	Ethylene glycol	107-21-1	6.7	U 6.7	14		1

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

Sample Description: SL-060-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-9.0-10.0

LLI Sample # SW 6149363
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:10 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06091 SDG#: DE022-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Propylene glycol	57-55-6	5.6 U	5.6	14		1
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.							
Reporting limits were raised due to interference from the sample matrix.							
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
Misc. Organics		SW-846 8315A modified	ng/g	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.2 U	2.2	5.6		1
10346	Hydrazine	302-01-2	0.56 U	0.56	2.2		1
10346	Methylhydrazine	60-34-4	2.2 U	2.2	5.6		1
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	14,600	5.43	21.6		1
07914	Boron	7440-42-8	3.71 J	0.960	5.39		1
01650	Calcium	7440-70-2	2,100	6.61	21.6		1
01654	Iron	7439-89-6	17,300	5.08	21.6		1
01656	Lithium	7439-93-2	17.7	0.24	2.2		1
01657	Magnesium	7439-95-4	3,990	2.74	10.8		1
06958	Manganese	7439-96-5	327	0.0841	0.539		1
10145	Phosphorus	7723-14-0	574	0.604	10.8		1
01662	Potassium	7440-09-7	3,850	19.4	53.9		1
01667	Sodium	7440-23-5	80.2 J	40.2	108		1
07968	Strontium	7440-24-6	16.9	0.0669	0.539		1
06969	Tin	7440-31-5	1.95 J	1.08	10.8		1
06970	Titanium	7440-32-6	1,250	2.05	5.39		5
10146	Zirconium	7440-67-7	2.07 J	0.906	5.39		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.104 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	2.70	0.0647	0.431		2
06126	Barium	7440-39-3	143	0.117	0.431		2
06127	Beryllium	7440-41-7	0.570	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.211	0.0388	0.108		2
06131	Chromium	7440-47-3	21.6	0.129	0.431		2
06132	Cobalt	7440-48-4	7.12	0.0216	0.108		2
06133	Copper	7440-50-8	13.4	0.0712	0.431		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-060-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-9.0-10.0

LLI Sample # SW 6149363
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:10 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06091 SDG#: DE022-03

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	6.11	0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.806	0.0539	0.108		2
06139	Nickel	7440-02-0	13.2	0.108	0.431		2
06141	Selenium	7782-49-2	0.164 J	0.0431	0.431		2
06142	Silver	7440-22-4	0.0232 J	0.0129	0.108		2
06145	Thallium	7440-28-0	0.330	0.0324	0.108		2
06148	Vanadium	7440-62-2	40.0	0.0237	0.108		2
06149	Zinc	7440-66-6	80.7	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	0.89 U	0.89	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.2	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 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	0.31 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	1.2	0.20	0.56		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	587	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.	5.46	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids 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

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-060-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-9.0-10.0

LLI Sample # SW 6149363
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:10 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06091 SDG#: DE022-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/22/2010 00:38	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 09:49	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010 05:05	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010 10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
10132	20a Energetics by 8330A	SW-846 8330A	1	103300007A	12/02/2010 10:25	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 21:36	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 02:04	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103300007A	11/26/2010 12:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B	SW-846 8015B	1	103330011A	12/04/2010 05:34	Heather E Williams	1
10501	Oil/Diesel	modified					
10501	25a Alcohols by 8015B	SW-846 8015B	1	103330001A	11/29/2010 21:17	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B	1	103340009A	11/30/2010 20:04	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103330028A	12/01/2010 23:10	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103330011A	11/29/2010 16:35	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103330028A	11/30/2010 06:20	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103340009A	11/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103330001A	11/29/2010 14:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A	1	10334001	12/01/2010 02:38	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:48	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:48	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:48	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 03:48	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/04/2010 02:59	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:48	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:48	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:48	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/04/2010 02:59	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:48	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:48	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:48	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 21:30	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 21:26	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 15:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	12/01/2010 13:56	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-060-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-060-SA5C-SB-9.0-10.0

LLI Sample # SW 6149363
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 14:10 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06091 SDG#: DE022-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 15:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 15:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 15:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 15:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 15:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 15:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 15:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 15:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 15:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 15:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 15:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 15:04	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 15:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 15:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:07	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201A	12/08/2010 16:47	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201A	12/08/2010 16:47	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201A	12/07/2010 14:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10347243201A	12/15/2010 17:57	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10337102201A	12/03/2010 18:35	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201A	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201A	12/06/2010 14:10	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10337102201A	12/03/2010 10:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10328182101A	11/24/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10328039401A	11/24/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010 11:42	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-076-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SB-3.0-4.0

LLI Sample # SW 6149364
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 15:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07634 SDG#: DE022-04

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	7.2 U	7.2	8.6		1.01
06192	Benzene	71-43-2	0.11 U	0.11	4.3		1.01
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.3		1.01
06192	Bromochloromethane	74-97-5	0.35 U	0.35	4.3		1.01
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.3		1.01
06192	Bromoform	75-25-2	0.43 U	0.43	4.3		1.01
06192	Bromomethane	74-83-9	0.27 U	0.27	4.3		1.01
06192	2-Butanone	78-93-3	1.3 U	1.3	8.6		1.01
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.3		1.01
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.3		1.01
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.3		1.01
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.3		1.01
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.3		1.01
06192	Chloroethane	75-00-3	0.14 U	0.14	4.3		1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.3		1.01
06192	Chloroform	67-66-3	0.13 U	0.13	4.3		1.01
06192	Chloromethane	74-87-3	0.35 U	0.35	4.3		1.01
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.3		1.01
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.3		1.01
06192	Chlorotrifluoroethene	79-38-9	0.54 U	0.54	5.4		1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75 U	0.75	4.3		1.01
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.3		1.01
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.3		1.01
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.3		1.01
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.3		1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.3		1.01
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.3		1.01
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.3		1.01
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.3		1.01
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.3		1.01
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.3		1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.3		1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.3		1.01
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.3		1.01
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.3		1.01
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.3		1.01
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.3		1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.3		1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.3		1.01
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.3		1.01
06192	Freon 113	76-13-1	0.12 U	0.12	4.3		1.01
06192	Freon 133a	75-88-7	0.54 U	0.54	5.4		1.01
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.3		1.01
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.6		1.01
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.3		1.01
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.3		1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.3		1.01
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.6		1.01
06192	Methylene Chloride	75-09-2	0.26 U	0.26	4.3		1.01
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.3		1.01

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Sample Description: SL-076-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SB-3.0-4.0

LLI Sample # SW 6149364
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 15:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07634 SDG#: DE022-04

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	0.11 U	0.11	4.3		1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.3		1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.3		1.01
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.3		1.01
06192	Toluene	108-88-3	0.09 U	0.09	4.3		1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.3		1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.3		1.01
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.3		1.01
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.3		1.01
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.3		1.01
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.3		1.01
06192	1,2,3-Trichloropropane	96-18-4	0.35 U	0.35	4.3		1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43	4.3		1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.3		1.01
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.3		1.01
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.3		1.01
06192	o-Xylene	95-47-6	0.18 U	0.18	4.3		1.01
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.1 U	5.1	15		23.9
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	237	17.6	35.2		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. The internal standard peak area of n-nitrosodimethylamine-d10 was above QC limits due to matrix interference. The interference caused the surrogate standard n-nitrosodimethylamine-d6 to recover outside of the advisory QC windows. The matrix interference was not observed in the re-extraction of the sample. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 21 ng/kg. The data reported here is from the initial extraction of the sample.							
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

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Sample Description: SL-076-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SB-3.0-4.0

LLI Sample # SW 6149364
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 15:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07634 SDG#: DE022-04

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	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
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

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Sample Description: SL-076-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SB-3.0-4.0

LLI Sample # SW 6149364
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 15:15 by PH

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07634 SDG#: DE022-04

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							
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
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1		23.19
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	79 U	79	160		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	53 U	53	160		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320		1
10132	1,3-Dinitrobenzene	99-65-0	53 U	53	160		1
10132	2,4-Dinitrotoluene	121-14-2	53 U	53	160		1
10132	2,6-Dinitrotoluene	606-20-2	53 U	53	160		1
10132	HMX	2691-41-0	130 U	130	400		1
10132	Nitrobenzene	98-95-3	53 U	53	160		1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200		1
10132	2-Nitrotoluene	88-72-2	110 U	110	160		1
10132	3-Nitrotoluene	99-08-1	130 U	130	160		1
10132	4-Nitrotoluene	99-99-0	110 U	110	160		1
10132	PETN	78-11-5	1,100 U	1,100	3,200		1
10132	RDX	121-82-4	66 U	66	160		1
10132	Tetryl	479-45-8	81 U	81	160		1
10132	1,3,5-Trinitrobenzene	99-35-4	53 U	53	160		1
10132	2,4,6-Trinitrotoluene	118-96-7	53 U	53	160		1
HPLC Organics SW-846 8315A							
04173	17a Formaldehyde by 8315A	50-00-0	630 U	630	1,600		1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.5		1

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Sample Description: SL-076-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SB-3.0-4.0

LLI Sample # SW 6149364
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 15:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07634 SDG#: DE022-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
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.	0.42 U	0.42	1.3		1
10199	EFH (C15-C20)	n.a.	0.42 U	0.42	1.3		1
10199	EFH (C21-C30)	n.a.	0.42 U	0.42	1.3		1
10199	EFH (C30 - C40)	n.a.	0.95 J	0.42	1.3		1
10199	EFH (C8-C11)	n.a.	0.42 U	0.42	1.3		1
GC Miscellaneous		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	110 U	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	7.4 U	7.4	13		1
08283	Propylene glycol	57-55-6	5.3 U	5.3	13		1
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. Reporting limits were raised due to interference from the sample matrix.							
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
Misc. Organics		SW-846 8315A modified	ng/g	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.1 U	2.1	5.3		1
10346	Hydrazine	302-01-2	0.53 U	0.53	2.1		1
10346	Methylhydrazine	60-34-4	2.1 U	2.1	5.3		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-076-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SB-3.0-4.0

LLI Sample # SW 6149364
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 15:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07634 SDG#: DE022-04

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	
01643	Aluminum	7429-90-5	17,800	5.26	20.9		1
07914	Boron	7440-42-8	3.51 J	0.931	5.23		1
01650	Calcium	7440-70-2	4,540	6.42	20.9		1
01654	Iron	7439-89-6	23,500	4.93	20.9		1
01656	Lithium	7439-93-2	28.8	0.23	2.1		1
01657	Magnesium	7439-95-4	5,770	2.66	10.5		1
06958	Manganese	7439-96-5	250	0.0816	0.523		1
10145	Phosphorus	7723-14-0	241	0.586	10.5		1
01662	Potassium	7440-09-7	1,560	18.8	52.3		1
01667	Sodium	7440-23-5	224	39.0	105		1
07968	Strontium	7440-24-6	29.0	0.0649	0.523		1
06969	Tin	7440-31-5	2.12 J	1.05	10.5		1
06970	Titanium	7440-32-6	1,130	1.99	5.23		5
10146	Zirconium	7440-67-7	4.12 J	0.879	5.23		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0986 J	0.0634	0.211		2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.						
06125	Arsenic	7440-38-2	5.51	0.0634	0.423		2
06126	Barium	7440-39-3	122	0.114	0.423		2
06127	Beryllium	7440-41-7	0.591	0.0169	0.106		2
06128	Cadmium	7440-43-9	0.158	0.0381	0.106		2
06131	Chromium	7440-47-3	27.8	0.127	0.423		2
06132	Cobalt	7440-48-4	6.14	0.0211	0.106		2
06133	Copper	7440-50-8	8.84	0.0698	0.423		2
06135	Lead	7439-92-1	6.21	0.0110	0.211		2
06138	Molybdenum	7439-98-7	0.201	0.0529	0.106		2
06139	Nickel	7440-02-0	17.1	0.106	0.423		2
06141	Selenium	7782-49-2	0.0423 U	0.0423	0.423		2
06142	Silver	7440-22-4	0.0966 J	0.0127	0.106		2
06145	Thallium	7440-28-0	0.265	0.0317	0.106		2
06148	Vanadium	7440-62-2	45.1	0.0233	0.106		2
06149	Zinc	7440-66-6	60.8	0.592	3.17		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0038 J	0.0030	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	4.7	0.85	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.85 U	0.85	1.6		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-076-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SB-3.0-4.0

LLI Sample # SW 6149364
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 15:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07634 SDG#: DE022-04

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	0.38 J	0.21	1.1	mg/kg	1
SW-846 7199							
05895	21a Cyanide by 9012B	57-12-5	0.19 U	0.19	0.52	mg/kg	1
SW-846 9012B							
01821	Oxidation Reduction Potential	n.a.	535	10.0	10.0	mV	1
The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.							
ASTM D1498							
SW-846 9045C modified							
00394	22a pH by 9045C	n.a.	7.52	0.0100	0.0100	Std. Units	1
Wet Chemistry							
11624	28a Total Solids by 160.3	n.a.	5.4	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-076-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	B103191BB	11/24/2010 19:08	Kristen D Pelliccia	1.01
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103312AA	11/27/2010 18:44	Sara E Johnson	23.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032823096	11/24/2010 16:37	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032823096	11/24/2010 17:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032823096	11/24/2010 17:04	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032823096	11/24/2010 16:35	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/22/2010 00:55	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 10:15	Brian K Graham	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-076-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SB-3.0-4.0

LLI Sample # SW 6149364
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 15:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07634 SDG#: DE022-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010 05:37	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010 10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10332A34A	12/01/2010 02:53	Elizabeth J Marin	23.19
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201032823096	11/24/2010 16:34	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103300007A	12/02/2010 11:08	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 21:55	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 02:22	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103300007A	11/26/2010 12:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103330011A	12/04/2010 05:59	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103330001A	11/29/2010 21:32	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103340009A	11/30/2010 20:20	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103330028A	12/02/2010 00:37	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103330011A	11/29/2010 16:35	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103330028A	11/30/2010 06:20	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103340009A	11/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103330001A	11/29/2010 14:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10334001	12/01/2010 02:58	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:52	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:52	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:52	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 03:52	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 21:33	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:52	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:52	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:52	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 21:33	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:52	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:52	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:52	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 21:37	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 21:33	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 15:08	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-076-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-076-SA5C-SB-3.0-4.0

LLI Sample # SW 6149364
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 15:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07634 SDG#: DE022-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 15:08	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 15:08	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 15:08	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:08	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201A	12/08/2010 17:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201A	12/08/2010 17:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201A	12/07/2010 14:40	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10347243201A	12/15/2010 18:10	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10337102201A	12/03/2010 18:36	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201A	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201A	12/06/2010 14:10	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10337102201A	12/03/2010 10:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10328182101A	11/24/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10328039401A	11/24/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010 11:42	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-077-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SB-3.0-4.0

LLI Sample # SW 6149365
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 11:30 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07734 SDG#: DE022-05

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	8.2 U	8.2	9.8		1.16
06192	Benzene	71-43-2	0.12 U	0.12	4.9		1.16
06192	Bromobenzene	108-86-1	0.16 U	0.16	4.9		1.16
06192	Bromochloromethane	74-97-5	0.40 U	0.40	4.9		1.16
06192	Bromodichloromethane	75-27-4	0.1 U	0.1	4.9		1.16
06192	Bromoform	75-25-2	0.49 U	0.49	4.9		1.16
06192	Bromomethane	74-83-9	0.31 U	0.31	4.9		1.16
06192	2-Butanone	78-93-3	1.5 U	1.5	9.8		1.16
06192	n-Butylbenzene	104-51-8	0.15 U	0.15	4.9		1.16
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.9		1.16
06192	tert-Butylbenzene	98-06-6	0.20 U	0.20	4.9		1.16
06192	Carbon Tetrachloride	56-23-5	0.17 U	0.17	4.9		1.16
06192	Chlorobenzene	108-90-7	0.13 U	0.13	4.9		1.16
06192	Chloroethane	75-00-3	0.16 U	0.16	4.9		1.16
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.37 U	0.37	4.9		1.16
06192	Chloroform	67-66-3	0.15 U	0.15	4.9		1.16
06192	Chloromethane	74-87-3	0.40 U	0.40	4.9		1.16
06192	2-Chlorotoluene	95-49-8	0.17 U	0.17	4.9		1.16
06192	4-Chlorotoluene	106-43-4	0.17 U	0.17	4.9		1.16
06192	Chlorotrifluoroethene	79-38-9	0.61 U	0.61	6.1		1.16
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.86 U	0.86	4.9		1.16
06192	Dibromochloromethane	124-48-1	0.25 U	0.25	4.9		1.16
06192	1,2-Dibromoethane	106-93-4	0.21 U	0.21	4.9		1.16
06192	Dibromomethane	74-95-3	0.29 U	0.29	4.9		1.16
06192	1,2-Dichlorobenzene	95-50-1	0.11 U	0.11	4.9		1.16
06192	1,3-Dichlorobenzene	541-73-1	0.15 U	0.15	4.9		1.16
06192	1,4-Dichlorobenzene	106-46-7	0.20 U	0.20	4.9		1.16
06192	Dichlorodifluoromethane	75-71-8	0.15 U	0.15	4.9		1.16
06192	1,1-Dichloroethane	75-34-3	0.12 U	0.12	4.9		1.16
06192	1,2-Dichloroethane	107-06-2	0.18 U	0.18	4.9		1.16
06192	1,1-Dichloroethene	75-35-4	0.48 U	0.48	4.9		1.16
06192	cis-1,2-Dichloroethene	156-59-2	0.23 U	0.23	4.9		1.16
06192	trans-1,2-Dichloroethene	156-60-5	0.15 U	0.15	4.9		1.16
06192	1,2-Dichloropropane	78-87-5	0.21 U	0.21	4.9		1.16
06192	1,3-Dichloropropane	142-28-9	0.1 U	0.1	4.9		1.16
06192	2,2-Dichloropropane	594-20-7	0.21 U	0.21	4.9		1.16
06192	1,1-Dichloropropene	563-58-6	0.16 U	0.16	4.9		1.16
06192	cis-1,3-Dichloropropene	10061-01-5	0.20 U	0.20	4.9		1.16
06192	trans-1,3-Dichloropropene	10061-02-6	0.21 U	0.21	4.9		1.16
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.9		1.16
06192	Freon 113	76-13-1	0.13 U	0.13	4.9		1.16
06192	Freon 133a	75-88-7	0.61 U	0.61	6.1		1.16
06192	Hexachlorobutadiene	87-68-3	0.17 U	0.17	4.9		1.16
06192	2-Hexanone	591-78-6	2.0 U	2.0	9.8		1.16
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.9		1.16
06192	p-Isopropyltoluene	99-87-6	0.13 U	0.13	4.9		1.16
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.26 U	0.26	4.9		1.16
06192	4-Methyl-2-pentanone	108-10-1	0.48 U	0.48	9.8		1.16
06192	Methylene Chloride	75-09-2	0.29 U	0.29	4.9		1.16
06192	n-Propylbenzene	103-65-1	0.09 U	0.09	4.9		1.16

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Sample Description: SL-077-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SB-3.0-4.0

LLI Sample # SW 6149365
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 11:30 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07734 SDG#: DE022-05

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	0.12 U	0.12	4.9		1.16
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.13 U	0.13	4.9		1.16
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.28 U	0.28	4.9		1.16
06192	Tetrachloroethene	127-18-4	0.25 U	0.25	4.9		1.16
06192	Toluene	108-88-3	0.1 U	0.1	4.9		1.16
06192	1,2,3-Trichlorobenzene	87-61-6	0.17 U	0.17	4.9		1.16
06192	1,2,4-Trichlorobenzene	120-82-1	0.22 U	0.22	4.9		1.16
06192	1,1,1-Trichloroethane	71-55-6	0.25 U	0.25	4.9		1.16
06192	1,1,2-Trichloroethane	79-00-5	0.33 U	0.33	4.9		1.16
06192	Trichloroethene	79-01-6	0.18 U	0.18	4.9		1.16
06192	Trichlorofluoromethane	75-69-4	0.35 U	0.35	4.9		1.16
06192	1,2,3-Trichloropropane	96-18-4	0.40 U	0.40	4.9		1.16
06192	1,2,4-Trimethylbenzene	95-63-6	0.49 U	0.49	4.9		1.16
06192	1,3,5-Trimethylbenzene	108-67-8	0.12 U	0.12	4.9		1.16
06192	Vinyl Chloride	75-01-4	0.25 U	0.25	4.9		1.16
06192	m+p-Xylene	179601-23-1	0.21 U	0.21	4.9		1.16
06192	o-Xylene	95-47-6	0.21 U	0.21	4.9		1.16
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.8 U	5.8	17		27.65
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	129	17.5	35.1		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 21 ng/kg. The data reported here is from the initial extraction of the sample.							
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	Benzo(g,h,i)perylene	191-24-2	24	J 18	180		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	Dibenz(a,h)anthracene	53-70-3	20	J 18	180		1
04688	Dibenzofuran	132-64-9	18	U 18	180		1

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Sample Description: SL-077-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SB-3.0-4.0

LLI Sample # SW 6149365
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 11:30 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07734 SDG#: DE022-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	1,2-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	Indeno(1,2,3-cd)pyrene	193-39-5	21	J 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
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(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

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Sample Description: SL-077-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SB-3.0-4.0

LLI Sample # SW 6149365
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 11:30 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07734 SDG#: DE022-05

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							
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	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	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
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.1		27
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	79 U	79	160		1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	53 U	53	160		1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	320		1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	320		1
10132	1,3-Dinitrobenzene	99-65-0	53 U	53	160		1
10132	2,4-Dinitrotoluene	121-14-2	53 U	53	160		1
10132	2,6-Dinitrotoluene	606-20-2	53 U	53	160		1
10132	HMX	2691-41-0	130 U	130	390		1
10132	Nitrobenzene	98-95-3	53 U	53	160		1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,200		1
10132	2-Nitrotoluene	88-72-2	110 U	110	160		1
10132	3-Nitrotoluene	99-08-1	130 U	130	160		1
10132	4-Nitrotoluene	99-99-0	110 U	110	160		1
10132	PETN	78-11-5	1,100 U	1,100	3,200		1
10132	RDX	121-82-4	66 U	66	160		1
10132	Tetryl	479-45-8	81 U	81	160		1
10132	1,3,5-Trinitrobenzene	99-35-4	53 U	53	160		1
10132	2,4,6-Trinitrotoluene	118-96-7	53 U	53	160		1
HPLC Organics SW-846 8315A							
04173	17a Formaldehyde by 8315A	50-00-0	630 U	630	1,600		1
Perchlorate SW-846 6850 1/2007							
06557	6a Perchlorate EPA 6850	14797-73-0	2.2 U	2.2	5.3		1
Pesticides/PCBs SW-846 8082							
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

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Sample Description: SL-077-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SB-3.0-4.0

LLI Sample # SW 6149365
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 11:30 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07734 SDG#: DE022-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
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.	0.42 U	0.42	1.3	1
10199	EFH (C15-C20)	n.a.	0.42 U	0.42	1.3	1
10199	EFH (C21-C30)	n.a.	0.42 U	0.42	1.3	1
10199	EFH (C30 - C40)	n.a.	0.42 U	0.42	1.3	1
10199	EFH (C8-C11)	n.a.	0.42 U	0.42	1.3	1

GC Miscellaneous		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg
10501	Ethanol	64-17-5	110 U	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

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.

The surrogate data is outside the QC limits. Results from the reanalysis are within the limits. The hold time had expired prior to the reanalysis therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

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

Misc. Organics		SW-846 8315A modified	ng/g	ng/g	ng/g	ng/g

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Sample Description: SL-077-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SB-3.0-4.0

LLI Sample # SW 6149365
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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07734 SDG#: DE022-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Misc. Organics		SW-846 8315A modified	ng/g		ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.1	U	2.1	5.3		1
10346	Hydrazine	302-01-2	0.53	U	0.53	2.1		1
10346	Methylhydrazine	60-34-4	2.1	U	2.1	5.3		1
Metals		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	12,800		5.09	20.2		1
07914	Boron	7440-42-8	2.92	J	0.901	5.06		1
01650	Calcium	7440-70-2	3,270		6.20	20.2		1
01654	Iron	7439-89-6	21,900		4.77	20.2		1
01656	Lithium	7439-93-2	32.0		0.22	2.0		1
01657	Magnesium	7439-95-4	5,240		2.57	10.1		1
06958	Manganese	7439-96-5	330		0.0789	0.506		1
10145	Phosphorus	7723-14-0	353		0.567	10.1		1
01662	Potassium	7440-09-7	2,440		18.2	50.6		1
01667	Sodium	7440-23-5	198		37.8	101		1
07968	Strontium	7440-24-6	23.0		0.0628	0.506		1
06969	Tin	7440-31-5	2.44	J	1.01	10.1		1
06970	Titanium	7440-32-6	1,570		1.92	5.06		5
10146	Zirconium	7440-67-7	3.27	J	0.850	5.06		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.222		0.0619	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	8.90		0.0619	0.413		2
06126	Barium	7440-39-3	135		0.111	0.413		2
06127	Beryllium	7440-41-7	0.540		0.0165	0.103		2
06128	Cadmium	7440-43-9	0.0670	J	0.0372	0.103		2
06131	Chromium	7440-47-3	20.9		0.124	0.413		2
06132	Cobalt	7440-48-4	8.84		0.0206	0.103		2
06133	Copper	7440-50-8	11.1		0.0681	0.413		2
06135	Lead	7439-92-1	5.48		0.0107	0.206		2
06138	Molybdenum	7439-98-7	0.281		0.0516	0.103		2
06139	Nickel	7440-02-0	15.9		0.103	0.413		2
06141	Selenium	7782-49-2	0.0599	J	0.0413	0.413		2
06142	Silver	7440-22-4	0.0207	J	0.0124	0.103		2
06145	Thallium	7440-28-0	0.452		0.0310	0.103		2
06148	Vanadium	7440-62-2	44.7		0.0227	0.103		2
06149	Zinc	7440-66-6	97.6		0.578	3.10		2
		SW-846 7471A	mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0028	U	0.0028	0.0982		1
Wet Chemistry		EPA 300.0	mg/kg		mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	3.6		0.84	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.84	U	0.84	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.

Sample Description: SL-077-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SB-3.0-4.0

LLI Sample # SW 6149365
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 11:30 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07734 SDG#: DE022-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	9.7 J ug/kg	9.5 ug/kg	31.6 ug/kg	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U mg/kg	0.21 mg/kg	1.1 mg/kg	mg/kg	1
SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.19 U mg/kg	0.19 mg/kg	0.53 mg/kg	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	520 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.	7.65 Std. Units	0.0100 Std. Units	0.0100 Std. Units	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Total Solids 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
The volatile analysis was performed on soil from SL-077-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	B103191BB	11/24/2010 19:30	Kristen D Pelliccia	1.16
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103312AA	11/27/2010 19:04	Sara E Johnson	27.65
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032823096	11/24/2010 16:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032823096	11/24/2010 17:04	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032823096	11/24/2010 16:41	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/22/2010 01:12	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 10:41	Brian K Graham	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-077-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SB-3.0-4.0

LLI Sample # SW 6149365
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 11:30 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07734 SDG#: DE022-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010 06:09	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010 10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10332A34A	12/01/2010 03:30	Elizabeth J Marin	27
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201032823096	11/24/2010 16:40	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103300007A	12/02/2010 11:50	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103300006A	11/29/2010 22:05	James H Place	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103330019A	12/01/2010 17:11	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 02:41	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103330019A	11/30/2010 08:50	Maria Davenport	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103300006A	11/26/2010 16:00	Wanda F Oswald	1
11137	Energetics Extraction	SW-846 8330	1	103300007A	11/26/2010 12:45	Wanda F Oswald	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103330011A	12/04/2010 06:24	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103330001A	11/29/2010 21:47	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103340009A	11/30/2010 20:36	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103330028A	12/02/2010 01:20	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103330011A	11/29/2010 16:35	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103330028A	11/30/2010 06:20	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103340009A	11/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103330001A	11/29/2010 14:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10334001	12/01/2010 03:19	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 03:56	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 03:56	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 03:56	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 03:56	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 21:40	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 03:56	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 03:56	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 03:56	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 21:40	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 03:56	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 03:56	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 03:56	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 21:43	John P Hook	5

*=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-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-077-SA5C-SB-3.0-4.0

LLI Sample # SW 6149365
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 11:30 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

07734 SDG#: DE022-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 21:40	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 15:11	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 15:11	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 15:11	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 15:11	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:09	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201A	12/08/2010 17:16	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201A	12/08/2010 17:16	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201A	12/17/2010 17:07	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 18:16	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10337102201A	12/03/2010 18:37	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201A	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201A	12/06/2010 14:10	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10337102201A	12/03/2010 10:25	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10328182101A	11/24/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10328039401A	11/24/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10342162401A	12/08/2010 11:42	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-065-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149366
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06BKG

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		0.96
06192	Benzene	71-43-2	0.10 U	0.10	4.0		0.96
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0		0.96
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0		0.96
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0		0.96
06192	Bromoform	75-25-2	0.40 U	0.40	4.0		0.96
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0		0.96
06192	2-Butanone	78-93-3	1.2 U	1.2	8.0		0.96
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0		0.96
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0		0.96
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0		0.96
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0		0.96
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0		0.96
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0		0.96
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0		0.96
06192	Chloroform	67-66-3	0.12 U	0.12	4.0		0.96
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0		0.96
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0		0.96
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0		0.96
06192	Chlorotrifluoroethene	79-38-9	0.50 U	0.50	5.0		0.96
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.70 U	0.70	4.0		0.96
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0		0.96
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0		0.96
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0		0.96
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0		0.96
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0		0.96
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0		0.96
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0		0.96
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.0		0.96
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0		0.96
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0		0.96
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0		0.96
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0		0.96
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0		0.96
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0		0.96
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0		0.96
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0		0.96
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0		0.96
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0		0.96
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0		0.96
06192	Freon 113	76-13-1	0.11 U	0.11	4.0		0.96
06192	Freon 133a	75-88-7	0.50 U	0.50	5.0		0.96
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0		0.96
06192	2-Hexanone	591-78-6	1.6 U	1.6	8.0		0.96
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0		0.96
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0		0.96
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0		0.96
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	8.0		0.96
06192	Methylene Chloride	75-09-2	0.24 U	0.24	4.0		0.96
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0		0.96

*=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-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149366
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06BKG

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		0.96
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0		0.96
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0		0.96
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0		0.96
06192	Toluene	108-88-3	0.08 U	0.08	4.0		0.96
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0		0.96
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0		0.96
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0		0.96
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0		0.96
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0		0.96
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0		0.96
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0		0.96
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0		0.96
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.0		0.96
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0		0.96
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0		0.96
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0		0.96
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		25.15
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

*=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-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149366
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06BKG

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	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
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	0.70	U 0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.70	U 0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.70	U 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	0.35	U 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	6.3	U 6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U 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

*=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-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149366
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	N-Nitrosodimethylamine	62-75-9	0.70 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	0.70 U	0.70	1.7		1
10138	Pyrene	129-00-0	0.70 U	0.70	1.7		1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.0 U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0 U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0 U	1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34 U	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.52 U	0.52	1.8		1
10225	PCB-1232	11141-16-5	0.54 U	0.54	1.8		1
10225	PCB-1242	53469-21-9	0.52 U	0.52	1.8		1
10225	PCB-1248	12672-29-6	0.34 U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34 U	0.34	1.8		1
10225	PCB-1260	11096-82-5	0.34 U	0.34	1.8		1
10225	PCB-1262	37324-23-5	0.34 U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34 U	0.34	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							
01643	Aluminum	7429-90-5	12,500	5.15	20.5		1
07914	Boron	7440-42-8	1.02 J	0.912	5.12		1
01650	Calcium	7440-70-2	2,640	6.28	20.5		1
01654	Iron	7439-89-6	19,700	4.83	20.5		1
01656	Lithium	7439-93-2	25.3	0.23	2.0		1
01657	Magnesium	7439-95-4	4,760	2.60	10.2		1
06958	Manganese	7439-96-5	251	0.0799	0.512		1
10145	Phosphorus	7723-14-0	225	0.574	10.2		1
01662	Potassium	7440-09-7	1,710	18.4	51.2		1
01667	Sodium	7440-23-5	297	38.2	102		1
07968	Strontium	7440-24-6	22.7	0.0635	0.512		1
06969	Tin	7440-31-5	2.42 J	1.02	10.2		1
06970	Titanium	7440-32-6	1,210	1.95	5.12		5
10146	Zirconium	7440-67-7	4.32 J	0.861	5.12		1
SW-846 6020							
06124	Antimony	7440-36-0	0.177 J	0.0603	0.201		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	4.90	0.0603	0.402		2
06126	Barium	7440-39-3	138	0.109	0.402		2
06127	Beryllium	7440-41-7	0.579	0.0161	0.100		2
06128	Cadmium	7440-43-9	0.0557 J	0.0362	0.100		2
06131	Chromium	7440-47-3	15.9	0.121	0.402		2
06132	Cobalt	7440-48-4	6.11	0.0201	0.100		2
06133	Copper	7440-50-8	5.78	0.0663	0.402		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-065-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149366
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06BKG

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	5.07	0.0104	0.201		2
06138	Molybdenum	7439-98-7	0.179	0.0502	0.100		2
06139	Nickel	7440-02-0	9.62	0.100	0.402		2
06141	Selenium	7782-49-2	0.123 J	0.0402	0.402		2
06142	Silver	7440-22-4	0.0208 J	0.0121	0.100		2
06145	Thallium	7440-28-0	0.291	0.0301	0.100		2
06148	Vanadium	7440-62-2	34.7	0.0221	0.100		2
06149	Zinc	7440-66-6	53.6	0.563	3.01		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.101		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	0.84	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	31.3		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	2.5	0.21	1.0		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	513	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.	7.39	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	4.3	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
The volatile analysis was performed on soil from SL-065-SA5C-SB-3.0.

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

Sample Description: SL-065-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149366
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06BKG

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	B103191BB	11/24/2010 19:53	Kristen D Pelliccia	0.96
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103312AA	11/27/2010 19:24	Sara E Johnson	25.15
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032823096	11/24/2010 16:47	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032823096	11/24/2010 17:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032823096	11/24/2010 17:04	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032823096	11/24/2010 16:45	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 01:45	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010 02:23	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010 10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 02:59	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 02:18	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 02:18	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 02:18	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 02:18	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 18:53	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 02:18	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 02:18	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 02:18	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 18:53	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 02:18	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 02:18	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 02:18	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 19:14	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 18:53	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 13:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 13:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 13:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 13:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 13:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 13:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 13:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 13:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 13:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 13:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 13:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 13:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 13:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 13:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 13:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 13:51	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-065-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149366
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:10	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201B	12/08/2010 17:30	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201A	12/07/2010 10:39	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10347243201A	12/15/2010 18:48	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201B	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201A	12/06/2010 14:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10328182101A	11/24/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10328039401A	11/24/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	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-065-SA5C-SB-2.5-3.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149367
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MS

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	190	7.3	8.7		1.04
06192	Benzene	71-43-2	23	0.11	4.4		1.04
06192	Bromobenzene	108-86-1	22	0.14	4.4		1.04
06192	Bromochloromethane	74-97-5	30	0.36	4.4		1.04
06192	Bromodichloromethane	75-27-4	21	0.09	4.4		1.04
06192	Bromoform	75-25-2	19	0.44	4.4		1.04
06192	Bromomethane	74-83-9	16	0.27	4.4		1.04
06192	2-Butanone	78-93-3	140	1.3	8.7		1.04
06192	n-Butylbenzene	104-51-8	22	0.13	4.4		1.04
06192	sec-Butylbenzene	135-98-8	23	0.07	4.4		1.04
06192	tert-Butylbenzene	98-06-6	21	0.17	4.4		1.04
06192	Carbon Tetrachloride	56-23-5	21	0.15	4.4		1.04
06192	Chlorobenzene	108-90-7	22	0.12	4.4		1.04
06192	Chloroethane	75-00-3	18	0.14	4.4		1.04
06192	2-Chloroethyl Vinyl Ether	110-75-8	17	0.33	4.4		1.04
06192	Chloroform	67-66-3	22	0.13	4.4		1.04
06192	Chloromethane	74-87-3	19	0.36	4.4		1.04
06192	2-Chlorotoluene	95-49-8	22	0.15	4.4		1.04
06192	4-Chlorotoluene	106-43-4	22	0.15	4.4		1.04
06192	Chlorotrifluoroethene	79-38-9	15	0.58	5.8		1.11
06192	1,2-Dibromo-3-chloropropane	96-12-8	18	0.76	4.4		1.04
06192	Dibromochloromethane	124-48-1	21	0.22	4.4		1.04
06192	1,2-Dibromoethane	106-93-4	20	0.18	4.4		1.04
06192	Dibromomethane	74-95-3	20	0.26	4.4		1.04
06192	1,2-Dichlorobenzene	95-50-1	22	0.1	4.4		1.04
06192	1,3-Dichlorobenzene	541-73-1	22	0.13	4.4		1.04
06192	1,4-Dichlorobenzene	106-46-7	22	0.17	4.4		1.04
06192	Dichlorodifluoromethane	75-71-8	17	0.13	4.4		1.04
06192	1,1-Dichloroethane	75-34-3	22	0.11	4.4		1.04
06192	1,2-Dichloroethane	107-06-2	21	0.16	4.4		1.04
06192	1,1-Dichloroethene	75-35-4	21	0.42	4.4		1.04
06192	cis-1,2-Dichloroethene	156-59-2	21	0.21	4.4		1.04
06192	trans-1,2-Dichloroethene	156-60-5	19	0.13	4.4		1.04
06192	1,2-Dichloropropane	78-87-5	22	0.18	4.4		1.04
06192	1,3-Dichloropropane	142-28-9	21	0.09	4.4		1.04
06192	2,2-Dichloropropane	594-20-7	17	0.18	4.4		1.04
06192	1,1-Dichloropropene	563-58-6	22	0.14	4.4		1.04
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.17	4.4		1.04
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.18	4.4		1.04
06192	Ethylbenzene	100-41-4	22	0.07	4.4		1.04
06192	Freon 113	76-13-1	23	0.12	4.4		1.04
06192	Freon 133a	75-88-7	18	0.58	5.8		1.11
06192	Hexachlorobutadiene	87-68-3	21	0.15	4.4		1.04
06192	2-Hexanone	591-78-6	88	1.7	8.7		1.04
06192	Isopropylbenzene	98-82-8	21	0.07	4.4		1.04
06192	p-Isopropyltoluene	99-87-6	22	0.12	4.4		1.04
06192	Methyl Tertiary Butyl Ether	1634-04-4	17	0.23	4.4		1.04
06192	4-Methyl-2-pentanone	108-10-1	91	0.42	8.7		1.04
06192	Methylene Chloride	75-09-2	19	0.26	4.4		1.04
06192	n-Propylbenzene	103-65-1	23	0.08	4.4		1.04

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

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Sample Description: SL-065-SA5C-SB-2.5-3.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149367
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MS

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	21	0.11	4.4		1.04
06192	1,1,1,2-Tetrachloroethane	630-20-6	21	0.12	4.4		1.04
06192	1,1,2,2-Tetrachloroethane	79-34-5	21	0.25	4.4		1.04
06192	Tetrachloroethene	127-18-4	22	0.22	4.4		1.04
06192	Toluene	108-88-3	22	0.09	4.4		1.04
06192	1,2,3-Trichlorobenzene	87-61-6	21	0.15	4.4		1.04
06192	1,2,4-Trichlorobenzene	120-82-1	20	0.20	4.4		1.04
06192	1,1,1-Trichloroethane	71-55-6	19	0.22	4.4		1.04
06192	1,1,2-Trichloroethane	79-00-5	21	0.29	4.4		1.04
06192	Trichloroethene	79-01-6	21	0.16	4.4		1.04
06192	Trichlorofluoromethane	75-69-4	19	0.32	4.4		1.04
06192	1,2,3-Trichloropropane	96-18-4	20	0.36	4.4		1.04
06192	1,2,4-Trimethylbenzene	95-63-6	22	0.44	4.4		1.04
06192	1,3,5-Trimethylbenzene	108-67-8	22	0.11	4.4		1.04
06192	Vinyl Chloride	75-01-4	19	0.22	4.4		1.04
06192	m+p-Xylene	179601-23-1	43	0.18	4.4		1.04
06192	o-Xylene	95-47-6	20	0.18	4.4		1.04
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	150	5.5	17		26.48
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500	17	170		1
04688	Acenaphthylene	208-96-8	1,600	17	170		1
04688	Aniline	62-53-3	910	170	520		1
04688	Anthracene	120-12-7	1,600	17	170		1
04688	Benzidine	92-87-5	2,400	J 1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,600	17	170		1
04688	Benzo(a)pyrene	50-32-8	1,900	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	2,000	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	2,000	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	1,800	17	170		1
04688	Benzoic acid	65-85-0	630	170	520		1
04688	Benzyl alcohol	100-51-6	1,400	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600	17	170		1
04688	Butylbenzylphthalate	85-68-7	1,700	17	170		1
04688	Di-n-butylphthalate	84-74-2	1,600	17	170		1
04688	Carbazole	86-74-8	1,600	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,400	35	170		1
04688	4-Chloroaniline	106-47-8	750	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,400	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300	17	170		1
04688	2-Chloronaphthalene	91-58-7	1,600	17	170		1
04688	2-Chlorophenol	95-57-8	1,500	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,600	35	170		1
04688	Chrysene	218-01-9	1,600	17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	2,100	17	170		1
04688	Dibenzofuran	132-64-9	1,600	17	170		1

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Sample Description: SL-065-SA5C-SB-2.5-3.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149367
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MS

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-Dichlorobenzene	95-50-1	1,500	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,400	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,500	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,400	100	350		1
04688	2,4-Dichlorophenol	120-83-2	1,500	17	170		1
04688	Diethylphthalate	84-66-2	1,500	17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,500	35	170		1
04688	3,5-Dimethylphenol	108-68-9	1,800	35	170		1
04688	Dimethylphthalate	131-11-3	1,500	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	510	J 170	520		1
04688	2,4-Dinitrophenol	51-28-5	800	J 700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,400	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,400	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,600	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	17	350		1
04688	Fluoranthene	206-44-0	1,600	17	170		1
04688	Fluorene	86-73-7	1,600	17	170		1
04688	Hexachlorobenzene	118-74-1	1,700	17	170		1
04688	Hexachlorobutadiene	87-68-3	1,600	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	790	170	520		1
04688	Hexachloroethane	67-72-1	1,200	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	2,100	17	170		1
04688	Isophorone	78-59-1	1,400	17	170		1
04688	1-Methylnaphthalene	90-12-0	1,500	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,400	17	170		1
04688	2-Methylphenol	95-48-7	1,400	35	170		1
04688	4-Methylphenol	106-44-5	1,300	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	Naphthalene	91-20-3	1,500	17	170		1
04688	2-Nitroaniline	88-74-4	1,600	17	170		1
04688	3-Nitroaniline	99-09-2	1,600	35	170		1
04688	4-Nitroaniline	100-01-6	1,300	70	170		1
04688	Nitrobenzene	98-95-3	1,500	17	170		1
04688	2-Nitrophenol	88-75-5	1,500	17	170		1
04688	4-Nitrophenol	100-02-7	1,300	170	520		1
04688	N-Nitrosodimethylamine	62-75-9	1,400	35	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,700	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	Di-n-octylphthalate	117-84-0	2,000	17	170		1
04688	Pentachlorophenol	87-86-5	1,500	170	520		1
04688	Phenanthrene	85-01-8	1,600	17	170		1
04688	Phenol	108-95-2	1,300	17	170		1
04688	Pyrene	129-00-0	1,600	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,600	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	35	170		1

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

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Sample Description: SL-065-SA5C-SB-2.5-3.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149367
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MS

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	2,4,6-Trichlorophenol	88-06-2	1,700	35	170		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	31	0.70	1.7		1
10138	Acenaphthylene	208-96-8	31	0.35	1.7		1
10138	Anthracene	120-12-7	31	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	33	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	30	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	34	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	23	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	31	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	32	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	34	6.3	19		1
10138	Chrysene	218-01-9	32	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	26	0.70	1.7		1
10138	Diethylphthalate	84-66-2	35	6.3	19		1
10138	Dimethylphthalate	131-11-3	34	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	36	6.3	19		1
10138	Fluoranthene	206-44-0	33	0.70	1.7		1
10138	Fluorene	86-73-7	33	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	26	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	32	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	28	0.70	1.7		1
10138	Naphthalene	91-20-3	30	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	26	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	33	6.3	19		1
10138	Phenanthrene	85-01-8	31	0.70	1.7		1
10138	Pyrene	129-00-0	30	0.70	1.7		1
Pesticides/PCBs	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0 U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0 U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0 U	1.0	3.4		1
10225	PCB-1016	12674-11-2	14	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.52 U	0.52	1.8		1
10225	PCB-1232	11141-16-5	0.54 U	0.54	1.8		1
10225	PCB-1242	53469-21-9	0.52 U	0.52	1.8		1
10225	PCB-1248	12672-29-6	0.34 U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34 U	0.34	1.8		1
10225	PCB-1260	11096-82-5	17	0.34	1.8		1
10225	PCB-1262	37324-23-5	0.34 U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34 U	0.34	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	14,500	5.20	20.7		1
07914	Boron	7440-42-8	201	0.921	5.17		1
01650	Calcium	7440-70-2	3,560	6.34	20.7		1

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

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Sample Description: SL-065-SA5C-SB-2.5-3.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149367
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MS

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	
01654	Iron	7439-89-6	20,100	4.87	20.7		1
01656	Lithium	7439-93-2	128	0.23	2.1		1
01657	Magnesium	7439-95-4	5,120	2.63	10.3		1
06958	Manganese	7439-96-5	295	0.0807	0.517		1
10145	Phosphorus	7723-14-0	341	0.579	10.3		1
01662	Potassium	7440-09-7	2,870	18.6	51.7		1
01667	Sodium	7440-23-5	1,380	38.6	103		1
07968	Strontium	7440-24-6	128	0.0641	0.517		1
06969	Tin	7440-31-5	378	1.03	10.3		1
06970	Titanium	7440-32-6	1,670	1.97	5.17		5
10146	Zirconium	7440-67-7	109	0.869	5.17		1
SW-846 6010B			mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.634	0.0615	0.205		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	0.0615	0.410		2
06126	Barium	7440-39-3	137	0.111	0.410		2
06127	Beryllium	7440-41-7	1.32	0.0164	0.102		2
06128	Cadmium	7440-43-9	1.18	0.0369	0.102		2
06131	Chromium	7440-47-3	27.6	0.123	0.410		2
06132	Cobalt	7440-48-4	60.6	0.0205	0.102		2
06133	Copper	7440-50-8	17.1	0.0676	0.410		2
06135	Lead	7439-92-1	9.57	0.0107	0.205		2
06138	Molybdenum	7439-98-7	11.8	0.0512	0.102		2
06139	Nickel	7440-02-0	21.6	0.102	0.410		2
06141	Selenium	7782-49-2	2.68	0.0410	0.410		2
06142	Silver	7440-22-4	12.7	0.0123	0.102		2
06145	Thallium	7440-28-0	0.807	0.0307	0.102		2
06148	Vanadium	7440-62-2	46.5	0.0225	0.102		2
06149	Zinc	7440-66-6	68.5	0.574	3.07		2
SW-846 7471A			mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.180	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	10.5	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	591	9.4	31.3		1
SW-846 7199			mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	43.7	1.0	5.2		5
Wet Chemistry EPA 160.3 modified			%	%	%	%	
11625	28a Total Solids by 160.3	n.a.	4.3	0.50	0.50		1

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

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Sample Description: SL-065-SA5C-SB-2.5-3.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149367
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MS

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-065-SA5C-SB-3.0.

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103191BB	11/24/2010 20:15	Kristen D Pelliccia	1.04
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103191BB	11/24/2010 21:01	Kristen D Pelliccia	1.11
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103312AA	11/27/2010 21:04	Sara E Johnson	26.48
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032823096	11/24/2010 16:52	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032823096	11/24/2010 17:04	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032823096	11/24/2010 17:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032823096	11/24/2010 16:49	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 02:10	Ryan P Byrne	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010 02:55	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010 10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 03:18	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 02:30	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 02:30	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 02:30	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 02:30	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 19:03	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 02:30	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 02:30	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 02:30	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 19:03	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 02:30	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 02:30	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 02:30	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 19:30	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 19:03	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 14:01	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2

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

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

Sample Description: SL-065-SA5C-SB-2.5-3.5MS Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149367
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:01	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:01	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:01	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:16	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201B	12/08/2010 17:58	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201A	12/07/2010 11:27	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 18:55	Nicole M Kepley	5
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201B	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201A	12/06/2010 14:10	Nancy J Shoop	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	William C Schwebel	1

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Sample Description: SL-065-SA5C-SB-2.5-3.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149368
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MSD

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	210	7.3	8.8		1.05
06192	Benzene	71-43-2	22	0.11	4.4		1.05
06192	Bromobenzene	108-86-1	22	0.14	4.4		1.05
06192	Bromochloromethane	74-97-5	29	0.36	4.4		1.05
06192	Bromodichloromethane	75-27-4	21	0.09	4.4		1.05
06192	Bromoform	75-25-2	20	0.44	4.4		1.05
06192	Bromomethane	74-83-9	17	0.27	4.4		1.05
06192	2-Butanone	78-93-3	160	1.3	8.8		1.05
06192	n-Butylbenzene	104-51-8	22	0.13	4.4		1.05
06192	sec-Butylbenzene	135-98-8	23	0.07	4.4		1.05
06192	tert-Butylbenzene	98-06-6	21	0.18	4.4		1.05
06192	Carbon Tetrachloride	56-23-5	20	0.15	4.4		1.05
06192	Chlorobenzene	108-90-7	22	0.12	4.4		1.05
06192	Chloroethane	75-00-3	18	0.14	4.4		1.05
06192	2-Chloroethyl Vinyl Ether	110-75-8	18	0.33	4.4		1.05
06192	Chloroform	67-66-3	21	0.13	4.4		1.05
06192	Chloromethane	74-87-3	20	0.36	4.4		1.05
06192	2-Chlorotoluene	95-49-8	21	0.15	4.4		1.05
06192	4-Chlorotoluene	106-43-4	21	0.15	4.4		1.05
06192	Chlorotrifluoroethene	79-38-9	15	0.57	5.7		1.09
06192	1,2-Dibromo-3-chloropropane	96-12-8	20	0.77	4.4		1.05
06192	Dibromochloromethane	124-48-1	21	0.22	4.4		1.05
06192	1,2-Dibromoethane	106-93-4	20	0.19	4.4		1.05
06192	Dibromomethane	74-95-3	21	0.26	4.4		1.05
06192	1,2-Dichlorobenzene	95-50-1	21	0.1	4.4		1.05
06192	1,3-Dichlorobenzene	541-73-1	21	0.13	4.4		1.05
06192	1,4-Dichlorobenzene	106-46-7	21	0.18	4.4		1.05
06192	Dichlorodifluoromethane	75-71-8	17	0.13	4.4		1.05
06192	1,1-Dichloroethane	75-34-3	22	0.11	4.4		1.05
06192	1,2-Dichloroethane	107-06-2	21	0.16	4.4		1.05
06192	1,1-Dichloroethene	75-35-4	21	0.43	4.4		1.05
06192	cis-1,2-Dichloroethene	156-59-2	21	0.21	4.4		1.05
06192	trans-1,2-Dichloroethene	156-60-5	19	0.13	4.4		1.05
06192	1,2-Dichloropropane	78-87-5	22	0.19	4.4		1.05
06192	1,3-Dichloropropane	142-28-9	22	0.09	4.4		1.05
06192	2,2-Dichloropropane	594-20-7	17	0.19	4.4		1.05
06192	1,1-Dichloropropene	563-58-6	22	0.14	4.4		1.05
06192	cis-1,3-Dichloropropene	10061-01-5	20	0.18	4.4		1.05
06192	trans-1,3-Dichloropropene	10061-02-6	19	0.19	4.4		1.05
06192	Ethylbenzene	100-41-4	21	0.07	4.4		1.05
06192	Freon 113	76-13-1	23	0.12	4.4		1.05
06192	Freon 133a	75-88-7	18	0.57	5.7		1.09
06192	Hexachlorobutadiene	87-68-3	21	0.15	4.4		1.05
06192	2-Hexanone	591-78-6	99	1.8	8.8		1.05
06192	Isopropylbenzene	98-82-8	21	0.07	4.4		1.05
06192	p-Isopropyltoluene	99-87-6	22	0.12	4.4		1.05
06192	Methyl Tertiary Butyl Ether	1634-04-4	18	0.23	4.4		1.05
06192	4-Methyl-2-pentanone	108-10-1	97	0.43	8.8		1.05
06192	Methylene Chloride	75-09-2	19	0.26	4.4		1.05
06192	n-Propylbenzene	103-65-1	23	0.08	4.4		1.05

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Sample Description: SL-065-SA5C-SB-2.5-3.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149368
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MSD

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	21	0.11	4.4		1.05
06192	1,1,1,2-Tetrachloroethane	630-20-6	21	0.12	4.4		1.05
06192	1,1,2,2-Tetrachloroethane	79-34-5	22	0.25	4.4		1.05
06192	Tetrachloroethene	127-18-4	21	0.22	4.4		1.05
06192	Toluene	108-88-3	21	0.09	4.4		1.05
06192	1,2,3-Trichlorobenzene	87-61-6	20	0.15	4.4		1.05
06192	1,2,4-Trichlorobenzene	120-82-1	20	0.20	4.4		1.05
06192	1,1,1-Trichloroethane	71-55-6	19	0.22	4.4		1.05
06192	1,1,2-Trichloroethane	79-00-5	21	0.30	4.4		1.05
06192	Trichloroethene	79-01-6	21	0.16	4.4		1.05
06192	Trichlorofluoromethane	75-69-4	19	0.32	4.4		1.05
06192	1,2,3-Trichloropropane	96-18-4	20	0.36	4.4		1.05
06192	1,2,4-Trimethylbenzene	95-63-6	22	0.44	4.4		1.05
06192	1,3,5-Trimethylbenzene	108-67-8	21	0.11	4.4		1.05
06192	Vinyl Chloride	75-01-4	20	0.22	4.4		1.05
06192	m+p-Xylene	179601-23-1	42	0.19	4.4		1.05
06192	o-Xylene	95-47-6	20	0.19	4.4		1.05
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	180	6.5	19		30.86
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Acenaphthene	83-32-9	1,500	17	170		1
04688	Acenaphthylene	208-96-8	1,600	17	170		1
04688	Aniline	62-53-3	1,100	170	520		1
04688	Anthracene	120-12-7	1,600	17	170		1
04688	Benzidine	92-87-5	3,000	J 1,200	3,500		1
04688	Benzo(a)anthracene	56-55-3	1,600	17	170		1
04688	Benzo(a)pyrene	50-32-8	1,900	17	170		1
04688	Benzo(b)fluoranthene	205-99-2	2,000	17	170		1
04688	Benzo(g,h,i)perylene	191-24-2	1,800	17	170		1
04688	Benzo(k)fluoranthene	207-08-9	2,000	17	170		1
04688	Benzoic acid	65-85-0	880	170	520		1
04688	Benzyl alcohol	100-51-6	1,500	170	520		1
04688	4-Bromophenyl-phenylether	101-55-3	1,600	17	170		1
04688	Butylbenzylphthalate	85-68-7	1,700	17	170		1
04688	Di-n-butylphthalate	84-74-2	1,600	17	170		1
04688	Carbazole	86-74-8	1,600	17	170		1
04688	4-Chloro-3-methylphenol	59-50-7	1,600	35	170		1
04688	4-Chloroaniline	106-47-8	780	70	170		1
04688	bis(2-Chloroethoxy)methane	111-91-1	1,500	17	170		1
04688	bis(2-Chloroethyl)ether	111-44-4	1,400	17	170		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	1,300	17	170		1
04688	2-Chloronaphthalene	91-58-7	1,500	17	170		1
04688	2-Chlorophenol	95-57-8	1,500	17	170		1
04688	4-Chlorophenyl-phenylether	7005-72-3	1,700	35	170		1
04688	Chrysene	218-01-9	1,600	17	170		1
04688	Dibenz(a,h)anthracene	53-70-3	1,800	17	170		1
04688	Dibenzofuran	132-64-9	1,600	17	170		1

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Sample Description: SL-065-SA5C-SB-2.5-3.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149368
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MSD

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-Dichlorobenzene	95-50-1	1,400	17	170		1
04688	1,3-Dichlorobenzene	541-73-1	1,400	17	170		1
04688	1,4-Dichlorobenzene	106-46-7	1,400	17	170		1
04688	3,3'-Dichlorobenzidine	91-94-1	1,000	100	350		1
04688	2,4-Dichlorophenol	120-83-2	1,600	17	170		1
04688	Diethylphthalate	84-66-2	1,600	17	170		1
04688	2,4-Dimethylphenol	105-67-9	1,500	35	170		1
04688	3,5-Dimethylphenol	108-68-9	2,000	35	170		1
04688	Dimethylphthalate	131-11-3	1,600	17	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	1,400	170	520		1
04688	2,4-Dinitrophenol	51-28-5	2,000	J 700	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	1,600	35	170		1
04688	2,6-Dinitrotoluene	606-20-2	1,600	17	170		1
04688	1,2-Diphenylhydrazine	122-66-7	1,500	17	170		1
04688	bis(2-Ethylhexyl)phthalate	117-81-7	1,700	17	350		1
04688	Fluoranthene	206-44-0	1,600	17	170		1
04688	Fluorene	86-73-7	1,600	17	170		1
04688	Hexachlorobenzene	118-74-1	1,600	17	170		1
04688	Hexachlorobutadiene	87-68-3	1,500	70	170		1
04688	Hexachlorocyclopentadiene	77-47-4	3,000	170	520		1
04688	Hexachloroethane	67-72-1	1,400	17	170		1
04688	Indeno(1,2,3-cd)pyrene	193-39-5	1,800	17	170		1
04688	Isophorone	78-59-1	1,400	17	170		1
04688	1-Methylnaphthalene	90-12-0	1,600	17	170		1
04688	2-Methylnaphthalene	91-57-6	1,500	17	170		1
04688	2-Methylphenol	95-48-7	1,500	35	170		1
04688	4-Methylphenol	106-44-5	1,500	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	Naphthalene	91-20-3	1,500	17	170		1
04688	2-Nitroaniline	88-74-4	1,600	17	170		1
04688	3-Nitroaniline	99-09-2	1,500	35	170		1
04688	4-Nitroaniline	100-01-6	1,200	70	170		1
04688	Nitrobenzene	98-95-3	1,400	17	170		1
04688	2-Nitrophenol	88-75-5	1,500	17	170		1
04688	4-Nitrophenol	100-02-7	1,400	170	520		1
04688	N-Nitrosodimethylamine	62-75-9	1,300	35	170		1
04688	N-Nitroso-di-n-propylamine	621-64-7	1,300	17	170		1
04688	N-Nitrosodiphenylamine	86-30-6	1,600	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	Di-n-octylphthalate	117-84-0	2,200	17	170		1
04688	Pentachlorophenol	87-86-5	1,400	170	520		1
04688	Phenanthrene	85-01-8	1,500	17	170		1
04688	Phenol	108-95-2	1,400	17	170		1
04688	Pyrene	129-00-0	1,600	17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	1,500	17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	1,600	35	170		1

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Sample Description: SL-065-SA5C-SB-2.5-3.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149368
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MSD

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	2,4,6-Trichlorophenol	88-06-2	1,600	35	170		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	28	0.70	1.7		1
10138	Acenaphthylene	208-96-8	28	0.35	1.7		1
10138	Anthracene	120-12-7	29	0.35	1.7		1
10138	Benzo(a)anthracene	56-55-3	31	0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	29	0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	33	0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	21	0.70	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	29	0.70	1.7		1
10138	Butylbenzylphthalate	85-68-7	30	6.3	19		1
10138	Di-n-butylphthalate	84-74-2	31	6.3	19		1
10138	Chrysene	218-01-9	30	0.35	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	25	0.70	1.7		1
10138	Diethylphthalate	84-66-2	30	6.3	19		1
10138	Dimethylphthalate	131-11-3	32	6.3	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	33	6.3	19		1
10138	Fluoranthene	206-44-0	31	0.70	1.7		1
10138	Fluorene	86-73-7	31	0.70	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	24	0.70	1.7		1
10138	1-Methylnaphthalene	90-12-0	30	0.70	1.7		1
10138	2-Methylnaphthalene	91-57-6	27	0.70	1.7		1
10138	Naphthalene	91-20-3	28	0.70	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	25	0.70	1.7		1
10138	Di-n-octylphthalate	117-84-0	30	6.3	19		1
10138	Phenanthrene	85-01-8	29	0.70	1.7		1
10138	Pyrene	129-00-0	29	0.70	1.7		1
Pesticides/PCBs	SW-846 8082		ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0 U	1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0 U	1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0 U	1.0	3.4		1
10225	PCB-1016	12674-11-2	17	0.34	1.8		1
10225	PCB-1221	11104-28-2	0.52 U	0.52	1.8		1
10225	PCB-1232	11141-16-5	0.54 U	0.54	1.8		1
10225	PCB-1242	53469-21-9	0.52 U	0.52	1.8		1
10225	PCB-1248	12672-29-6	0.34 U	0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34 U	0.34	1.8		1
10225	PCB-1260	11096-82-5	19	0.34	1.8		1
10225	PCB-1262	37324-23-5	0.34 U	0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34 U	0.34	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	15,300	5.10	20.3		1
07914	Boron	7440-42-8	198	0.903	5.07		1
01650	Calcium	7440-70-2	3,440	6.22	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-065-SA5C-SB-2.5-3.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149368
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MSD

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	20,800	4.78	20.3		1
01656	Lithium	7439-93-2	128	0.22	2.0		1
01657	Magnesium	7439-95-4	5,280	2.58	10.1		1
06958	Manganese	7439-96-5	312	0.0791	0.507		1
10145	Phosphorus	7723-14-0	341	0.568	10.1		1
01662	Potassium	7440-09-7	3,030	18.3	50.7		1
01667	Sodium	7440-23-5	1,360	37.8	101		1
07968	Strontium	7440-24-6	127	0.0629	0.507		1
06969	Tin	7440-31-5	368	1.01	10.1		1
06970	Titanium	7440-32-6	1,550	1.93	5.07		5
10146	Zirconium	7440-67-7	107	0.852	5.07		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.577	0.0615	0.205		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	7.03	0.0615	0.410		2
06126	Barium	7440-39-3	108	0.111	0.410		2
06127	Beryllium	7440-41-7	1.26	0.0164	0.102		2
06128	Cadmium	7440-43-9	1.21	0.0369	0.102		2
06131	Chromium	7440-47-3	23.1	0.123	0.410		2
06132	Cobalt	7440-48-4	50.5	0.0205	0.102		2
06133	Copper	7440-50-8	13.9	0.0676	0.410		2
06135	Lead	7439-92-1	7.81	0.0107	0.205		2
06138	Molybdenum	7439-98-7	10.1	0.0512	0.102		2
06139	Nickel	7440-02-0	17.1	0.102	0.410		2
06141	Selenium	7782-49-2	2.30	0.0410	0.410		2
06142	Silver	7440-22-4	10.4	0.0123	0.102		2
06145	Thallium	7440-28-0	0.665	0.0307	0.102		2
06148	Vanadium	7440-62-2	36.5	0.0225	0.102		2
06149	Zinc	7440-66-6	58.9	0.574	3.07		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.171	0.0030	0.104		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11625	28a Total Solids by 160.3	n.a.	4.3	0.50	0.50		1

General Sample Comments

State of California Lab Certification No. 2501
The volatile analysis was performed on soil from SL-065-SA5C-SB-3.0.

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

*=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-SA5C-SB-2.5-3.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149368
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MSD

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	B103191BB	11/24/2010 20:38	Kristen D Pelliccia	1.05
06192	1a Volatile Organics EPA 8260B	SW-846 8260B	1	B103191BB	11/24/2010 21:23	Kristen D Pelliccia	1.09
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103312AA	11/27/2010 21:24	Sara E Johnson	30.86
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032823096	11/24/2010 16:56	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032823096	11/24/2010 17:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032823096	11/24/2010 17:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032823096	11/24/2010 16:54	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 08:05	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010 03:28	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010 10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 03:37	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 02:34	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 02:34	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 02:34	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 02:34	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 19:07	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 02:34	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 02:34	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 02:34	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 19:07	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 02:34	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 02:34	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 02:34	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 19:33	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 19:07	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 14:04	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 14:04	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 14:04	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 14:04	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 14:04	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 14:04	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 14:04	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 14:04	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 14:04	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 14:04	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 14:04	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 14:04	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 14:04	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 14:04	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-065-SA5C-SB-2.5-3.5MSD Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149368
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 14:04	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 14:04	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:18	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	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-065-SA5C-SB-2.5-3.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149369
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06DUP

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	12,900	5.10	20.3		1
07914	Boron	7440-42-8	0.903 U	0.903	5.07		1
01650	Calcium	7440-70-2	2,760	6.22	20.3		1
01654	Iron	7439-89-6	20,300	4.78	20.3		1
01656	Lithium	7439-93-2	27.3	0.22	2.0		1
01657	Magnesium	7439-95-4	4,940	2.58	10.1		1
06958	Manganese	7439-96-5	289	0.0791	0.507		1
10145	Phosphorus	7723-14-0	236	0.568	10.1		1
01662	Potassium	7440-09-7	1,760	18.3	50.7		1
01667	Sodium	7440-23-5	312	37.8	101		1
07968	Strontium	7440-24-6	25.1	0.0629	0.507		1
06969	Tin	7440-31-5	2.49 J	1.01	10.1		1
06970	Titanium	7440-32-6	1,230	1.93	5.07		5
10146	Zirconium	7440-67-7	5.09	0.852	5.07		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.119 J	0.0609	0.203		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	4.54	0.0609	0.406		2
06126	Barium	7440-39-3	106	0.110	0.406		2
06127	Beryllium	7440-41-7	0.517	0.0162	0.101		2
06128	Cadmium	7440-43-9	0.0478 J	0.0365	0.101		2
06131	Chromium	7440-47-3	15.0	0.122	0.406		2
06132	Cobalt	7440-48-4	5.67	0.0203	0.101		2
06133	Copper	7440-50-8	5.81	0.0670	0.406		2
06135	Lead	7439-92-1	4.92	0.0106	0.203		2
06138	Molybdenum	7439-98-7	0.182	0.0507	0.101		2
06139	Nickel	7440-02-0	8.82	0.101	0.406		2
06141	Selenium	7782-49-2	0.0651 J	0.0406	0.406		2
06142	Silver	7440-22-4	0.0122 U	0.0122	0.101		2
06145	Thallium	7440-28-0	0.282	0.0304	0.101		2
06148	Vanadium	7440-62-2	31.8	0.0223	0.101		2
06149	Zinc	7440-66-6	50.3	0.568	3.04		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0028 U	0.0028	0.0982		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8	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	31.3		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	1.0		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-065-SA5C-SB-2.5-3.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149369
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06DUP

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.	512	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.	7.41	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11625	28a Total Solids by 160.3	n.a.	4.3	0.50	0.50		1
11626	28a Total Solids by 160.3	n.a.	4.1	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	103285708005	12/02/2010 02:26	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 02:26	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 02:26	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 02:26	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 19:00	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 02:26	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 02:26	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 02:26	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 19:00	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 02:26	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 02:26	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 02:26	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 19:27	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 19:00	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 13:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 13:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 13:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 13:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 13:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 13:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 13:57	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-065-SA5C-SB-2.5-3.5DUP Soil
SSFL Area IV Collocated Soil Sampling
SL-065-SA5C-SB-2.5-3.5

LLI Sample # SW 6149369
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 09:36 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06523 SDG#: DE022-06DUP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 13:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 13:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	11/30/2010 13:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 13:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 13:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 13:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 13:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 13:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 13:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:15	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201B	12/08/2010 17:44	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201A	12/07/2010 11:03	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 19:33	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201B	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201A	12/06/2010 14:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10328182101A	11/24/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10328039401A	11/24/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11625	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	William C Schwebel	1
11626	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	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-062-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5C-SB-2.5-3.5

LLI Sample # SW 6149370
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 10:42 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06223 SDG#: DE022-07

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	7.3 U	7.3	8.7		0.99
06192	Benzene	71-43-2	0.11 U	0.11	4.3		0.99
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.3		0.99
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.3		0.99
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.3		0.99
06192	Bromoform	75-25-2	0.43 U	0.43	4.3		0.99
06192	Bromomethane	74-83-9	0.27 U	0.27	4.3		0.99
06192	2-Butanone	78-93-3	1.3 U	1.3	8.7		0.99
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.3		0.99
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.3		0.99
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.3		0.99
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.3		0.99
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.3		0.99
06192	Chloroethane	75-00-3	0.14 U	0.14	4.3		0.99
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.33 U	0.33	4.3		0.99
06192	Chloroform	67-66-3	0.13 U	0.13	4.3		0.99
06192	Chloromethane	74-87-3	0.36 U	0.36	4.3		0.99
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.3		0.99
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.3		0.99
06192	Chlorotrifluoroethene	79-38-9	0.54 U	0.54	5.4		0.99
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76 U	0.76	4.3		0.99
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.3		0.99
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.3		0.99
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.3		0.99
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.3		0.99
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.3		0.99
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.3		0.99
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.3		0.99
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.3		0.99
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.3		0.99
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.3		0.99
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.3		0.99
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.3		0.99
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.3		0.99
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.3		0.99
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.3		0.99
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.3		0.99
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.3		0.99
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.3		0.99
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.3		0.99
06192	Freon 113	76-13-1	0.12 U	0.12	4.3		0.99
06192	Freon 133a	75-88-7	0.54 U	0.54	5.4		0.99
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.3		0.99
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.7		0.99
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.3		0.99
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.3		0.99
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.3		0.99
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.7		0.99
06192	Methylene Chloride	75-09-2	0.26 U	0.26	4.3		0.99
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.3		0.99

*=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-062-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5C-SB-2.5-3.5

LLI Sample # SW 6149370
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 10:42 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06223 SDG#: DE022-07

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	0.11 U	0.11	4.3		0.99
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.3		0.99
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.3		0.99
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.3		0.99
06192	Toluene	108-88-3	0.09 U	0.09	4.3		0.99
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.3		0.99
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.3		0.99
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.3		0.99
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.3		0.99
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.3		0.99
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.3		0.99
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36	4.3		0.99
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43	4.3		0.99
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.3		0.99
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.3		0.99
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.3		0.99
06192	o-Xylene	95-47-6	0.18 U	0.18	4.3		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	16		23.99
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

*=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-062-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5C-SB-2.5-3.5

LLI Sample # SW 6149370
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 10:42 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06223 SDG#: DE022-07

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	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
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	6.6	U 6.6	20		1
10138	Di-n-butylphthalate	84-74-2	6.6	U 6.6	20		1
10138	Chrysene	218-01-9	0.36	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	6.6	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-062-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5C-SB-2.5-3.5

LLI Sample # SW 6149370
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 10:42 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06223 SDG#: DE022-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	N-Nitrosodimethylamine	62-75-9	0.73 U	0.73	1.8		1
10138	Di-n-octylphthalate	117-84-0	6.6 U	6.6	20		1
10138	Phenanthrene	85-01-8	0.73 U	0.73	1.8		1
10138	Pyrene	129-00-0	0.73 U	0.73	1.8		1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6		1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.9		1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9		1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9		1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9		1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9		1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9		1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.9		1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9		1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9		1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.							
Metals SW-846 6010B							
01643	Aluminum	7429-90-5	17,500	5.29	21.0		1
07914	Boron	7440-42-8	2.51 J	0.935	5.25		1
01650	Calcium	7440-70-2	2,820	6.44	21.0		1
01654	Iron	7439-89-6	23,000	4.95	21.0		1
01656	Lithium	7439-93-2	27.3	0.23	2.1		1
01657	Magnesium	7439-95-4	5,410	2.67	10.5		1
06958	Manganese	7439-96-5	202	0.0820	0.525		1
10145	Phosphorus	7723-14-0	327	0.588	10.5		1
01662	Potassium	7440-09-7	2,130	18.9	52.5		1
01667	Sodium	7440-23-5	843	39.2	105		1
07968	Strontium	7440-24-6	23.9	0.0652	0.525		1
06969	Tin	7440-31-5	2.38 J	1.05	10.5		1
06970	Titanium	7440-32-6	1,350	2.00	5.25		5
10146	Zirconium	7440-67-7	3.35 J	0.883	5.25		1
SW-846 6020							
06124	Antimony	7440-36-0	0.0786 J	0.0649	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	6.24	0.0649	0.433		2
06126	Barium	7440-39-3	92.3	0.117	0.433		2
06127	Beryllium	7440-41-7	0.610	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.0390 U	0.0390	0.108		2
06131	Chromium	7440-47-3	24.8	0.130	0.433		2
06132	Cobalt	7440-48-4	7.44	0.0216	0.108		2
06133	Copper	7440-50-8	10.5	0.0714	0.433		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-062-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5C-SB-2.5-3.5

LLI Sample # SW 6149370
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 10:42 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06223 SDG#: DE022-07

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	7.65	0.0113	0.216		2
06138	Molybdenum	7439-98-7	0.321	0.0541	0.108		2
06139	Nickel	7440-02-0	11.7	0.108	0.433		2
06141	Selenium	7782-49-2	0.0433 U	0.0433	0.433		2
06142	Silver	7440-22-4	0.0475 J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.256	0.0325	0.108		2
06148	Vanadium	7440-62-2	47.2	0.0238	0.108		2
06149	Zinc	7440-66-6	53.1	0.606	3.25		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	15.4	0.87	1.1		1
		EPA 314.0	ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.8 U	9.8	32.8		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.	500	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.	7.93	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	8.5	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-062-SA5C-SB-3.0.

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

Sample Description: SL-062-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5C-SB-2.5-3.5

LLI Sample # SW 6149370
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 10:42 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06223 SDG#: DE022-07

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	B103191BB	11/24/2010 21:46	Kristen D Pelliccia	0.99
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103312AA	11/27/2010 19:44	Sara E Johnson	23.99
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201032823096	11/24/2010 17:00	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201032823096	11/24/2010 17:05	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201032823096	11/24/2010 17:05	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201032823096	11/24/2010 16:58	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10330SLB026	12/03/2010 11:07	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010 06:41	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010 10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10330SLB026	11/28/2010 10:00	Karen L Beyer	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103350002A	12/03/2010 03:55	Lindsey K Lafferty	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103350002A	12/01/2010 09:45	Edwin Ortiz	1
01643	Aluminum	SW-846 6010B	1	103285708005	12/02/2010 04:00	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103285708005	12/02/2010 04:00	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103285708005	12/02/2010 04:00	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103285708005	12/02/2010 04:00	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103285708005	12/02/2010 21:47	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103285708005	12/02/2010 04:00	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103285708005	12/02/2010 04:00	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103285708005	12/02/2010 04:00	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103285708005	12/02/2010 21:47	John P Hook	1
01667	Sodium	SW-846 6010B	1	103285708005	12/02/2010 04:00	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103285708005	12/02/2010 04:00	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103285708005	12/02/2010 04:00	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103285708005	12/02/2010 21:50	John P Hook	5
10146	Zirconium	SW-846 6010B	1	103285708005	12/02/2010 21:47	John P Hook	1
06124	Antimony	SW-846 6020	1	103281026001A	11/30/2010 15:14	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103281026001A	11/30/2010 15:14	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103281026001D	11/30/2010 15:14	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103281026001A	11/30/2010 15:14	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103281026001A	11/30/2010 15:14	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103281026001A	11/30/2010 15:14	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103281026001A	11/30/2010 15:14	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103281026001A	11/30/2010 15:14	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103281026001A	11/30/2010 15:14	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103281026001C	12/01/2010 13:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103281026001A	11/30/2010 15:14	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103281026001B	11/30/2010 15:14	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103281026001A	11/30/2010 15:14	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103281026001A	11/30/2010 15:14	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103281026001A	11/30/2010 15:14	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103281026001A	11/30/2010 15:14	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-062-SA5C-SB-2.5-3.5 Soil
SSFL Area IV Collocated Soil Sampling
SL-062-SA5C-SB-2.5-3.5

LLI Sample # SW 6149370
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 10:42 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

06223 SDG#: DE022-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	103285711001	11/29/2010 11:19	Damary Valentin	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103285708005	11/26/2010 20:42	Annamaria Stipkovits	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103281026001	11/26/2010 21:05	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103285711001	11/26/2010 23:20	Annamaria Stipkovits	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201B	12/08/2010 18:41	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201A	12/07/2010 15:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 19:46	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201B	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201A	12/06/2010 14:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10328182101A	11/24/2010 14:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10328039401A	11/24/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	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: EB10-SA5C-112310 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5C-112310

LLI Sample # WW 6149371
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 12:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

EB-10 SDG#: DE022-08EB

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: EB10-SA5C-112310 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5C-112310

LLI Sample # WW 6149371
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 12:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

EB-10 SDG#: DE022-08EB

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	EPA 1625C	ng/l	ng/l	ng/l	ng/l	
10962	N-Nitrosodimethylamine	62-75-9	6.45	0.522	1.04		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 1.94 ng/l. The blank value was not subtracted from the analytical result.							
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
Explosives	SW-846 8330A		ug/l	ug/l	ug/l	ug/l	
10131	4-Amino-2,6-Dinitrotoluene	19406-51-0	0.30 U	0.30	0.60	1000000 0	1
10131	2-Amino-4,6-Dinitrotoluene	35572-78-2	0.20 U	0.20	0.60	1000000 0	1
10131	2,6-Diamino-4-nitrotoluene	59229-75-3	0.20 U	0.20	0.60	1000000 0	1
10131	2,4-Diamino-6-nitrotoluene	6629-29-4	0.20 U	0.20	0.60	1000000 0	1
10131	1,3-Dinitrobenzene	99-65-0	0.26 J	0.20	0.60	1000000 0	1
10131	2,4-Dinitrotoluene	121-14-2	0.20 U	0.20	0.60	1000000 0	1
10131	2,6-Dinitrotoluene	606-20-2	0.20 U	0.20	0.60	1000000 0	1
10131	HMX	2691-41-0	0.65 U	0.65	2.0	1000000 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: EB10-SA5C-112310 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5C-112310

LLI Sample # WW 6149371
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 12:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

EB-10 SDG#: DE022-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
Explosives		SW-846 8330A	ug/l		ug/l	ug/l	ug/l	
10131	Nitrobenzene	98-95-3	0.20	U	0.20	0.60	1000000 0	1
10131	Nitroglycerin	55-63-0	5.2	U	5.2	15	1000000 0	1
10131	2-Nitrotoluene	88-72-2	0.20	U	0.20	0.60	1000000 0	1
10131	3-Nitrotoluene	99-08-1	0.40	U	0.40	1.2	1000000 0	1
10131	4-Nitrotoluene	99-99-0	0.60	U	0.60	1.2	1000000 0	1
10131	PETN	78-11-5	6.0	U	6.0	18	1000000 0	1
10131	RDX	121-82-4	2.9		0.20	0.60	1000000 0	1
10131	Tetryl	479-45-8	0.40	U	0.40	0.60	1000000 0	1
10131	1,3,5-Trinitrobenzene	99-35-4	0.20	U	0.20	0.60	1000000 0	1
10131	2,4,6-Trinitrotoluene	118-96-7	0.20	U	0.20	0.60	1000000 0	1
1,3-dinitrobenzene was detected in the method blank at a concentration of 0.60 ug/l. The LCS recovery for 1,3-dinitrobenzene 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 except 1,3-dinitrobenzene and RDX were not detected in the reextraction.								
HPLC Organics		SW-846 8315A	ug/l		ug/l	ug/l	ug/l	
04144	17b Formaldehyde by 8315A	50-00-0	10	U	10	50		1
GC Extractable TPH		SW-846 8015B modified	mg/l		mg/l	mg/l	mg/l	
10365	EFH (C12-C14)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C15-C20)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C21-C30)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C30 - C40)	n.a.	0.10	U	0.10	0.60		1
10365	EFH (C8-C11)	n.a.	0.10	U	0.10	0.60		1
GC Miscellaneous		SW-846 8015B	ug/l		ug/l	ug/l	ug/l	
06624	Ethanol	64-17-5	200	U	200	1,000		1
06624	Isopropanol	67-63-0	200	U	200	1,000		1
06624	Methanol	67-56-1	200	U	200	1,000		1
GC Miscellaneous		SW-846 8015B modified	mg/l		mg/l	mg/l	mg/l	
08278	Diethylene glycol	111-46-6	10	U	10	100		1
08278	Ethylene glycol	107-21-1	10	U	10	100		1
08278	Propylene glycol	57-55-6	10	U	10	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: EB10-SA5C-112310 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5C-112310

LLI Sample # WW 6149371
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 12:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

EB-10 SDG#: DE022-08EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Action Limit	Dilution Factor
The samples were 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.							
Terphenyls		SW-846 8015B	mg/l	mg/l	mg/l	mg/l	
10319	m-Terphenyl	92-06-8	0.080 U	0.080	0.25		1
10319	o-Terphenyl	84-15-1	0.080 U	0.080	0.25		1
10319	p-Terphenyl	92-94-4	0.080 U	0.080	0.25		1
Misc. Organics		SW-846 8315A modified	ug/l	ug/l	ug/l	ug/l	
10342	1,1-Dimethylhydrazine	57-14-7	0.25 U	0.25	0.50		1
10342	Hydrazine	302-01-2	0.050 U	0.050	0.10		1
10342	Methylhydrazine	60-34-4	0.25 U	0.25	0.50		1
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	mg/l	
00368	11b Anions by 300.0 - Nitrate	14797-55-8	0.050 U	0.050	0.10		1
		SW-846 9012B	mg/l	mg/l	mg/l	mg/l	
08255	21b Cyanide by 9012B	57-12-5	0.0050 U	0.0050	0.010		1
		SW-846 9040B	Std. Units	Std. Units	Std. Units	Std. Units	
00200	22b pH by 9040B	n.a.	5.6	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	Y103352AA	12/02/2010 00:23	Stephanie A Selis	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103351AA	12/01/2010 18:46	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103351AA	12/01/2010 18:46	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103352AA	12/02/2010 00:23	Stephanie A Selis	1
10962	19b NDMA by 1625C	EPA 1625C	1	10328WAE026	12/21/2010 19:11	Timothy J Trees	1
11629	NDMA Liquid/Liquid Extraction	SW-846 3520C	1	10328WAE026	11/25/2010 00:55	David V Hershey Jr	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10334A20A	11/30/2010 15:35	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10334A20A	11/30/2010 15:35	Tyler O Griffin	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: EB10-SA5C-112310 Water
SSFL Area IV Collocated Soil Sampling
EB10-SA5C-112310

LLI Sample # WW 6149371
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 12:15 by PH

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

EB-10 SDG#: DE022-08EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10131	20b Energetics by 8330A	SW-846 8330A	1	103330020A	12/02/2010 16:04	Michele D Hamilton	1
04144	17b Formaldehyde by 8315A	SW-846 8315A	1	103280016A	11/29/2010 18:28	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	103280016A	11/26/2010 10:20	Olivia Arosemena	1
11122	Energetics Extraction	SW-846 8330	1	103330020A	11/30/2010 14:30	Olivia Arosemena	1
10365	9b TPH by EPA 8015B	SW-846 8015B	1	103430003A	12/04/2010 12:12	Heather E Williams	1
	Oil/Diesel	modified					
06624	25b Alcohols by 8015B	SW-846 8015B	1	103330003A	11/29/2010 12:17	Dustin A Underkoffler	1
08278	27b Glycols by 8015B	SW-846 8015B	1	103330002A	11/30/2010 17:40	Robert Brown	1
		modified					
10319	26b Terphenyls by 8015B	SW-846 8015B	1	103330008A	12/01/2010 15:14	Heather E Williams	1
11203	Boeing EFH Waters Extraction	SW-846 3510C	1	103430003A	11/29/2010 10:30	Denise L Trimby	1
10304	Terphenyls water prep	SW-846 3510C	1	103330008A	11/29/2010 14:40	Timothy J Attenberger	1
10342	18b Hydrazine by 8315A	SW-846 8315A	1	10328001	11/25/2010 10:33	Meng Yu	1
		modified					
00368	11b Anions by 300.0 - Nitrate	EPA 300.0	1	10327196902B	11/24/2010 12:52	Ashley M Adams	1
08255	21b Cyanide by 9012B	SW-846 9012B	1	10334117102A	11/30/2010 20:41	Venia B McFadden	1
08256	Cyanide Water Distillation	SW-846 9012B	1	10334117102A	11/30/2010 10:20	Nancy J Shoop	1
00200	22b pH by 9040B	SW-846 9040B	1	10328020001B	11/24/2010 19:30	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: TB-112310 Water
SSFL Area IV Collocated Soil Sampling
TB-112310

LLI Sample # WW 6149372
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 15:00

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

TB-23 SDG#: DE022-09TB*

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	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-112310 Water
SSFL Area IV Collocated Soil Sampling
TB-112310

LLI Sample # WW 6149372
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 15:00

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

TB-23 SDG#: DE022-09TB*

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
The LCS and LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: Freon 133a.							

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	Y103331AA	11/29/2010 20:54	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103311AA	11/27/2010 15:05	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103311AA	11/27/2010 15:05	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103331AA	11/29/2010 20:54	Frank A Valla, Jr	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10334A20A	11/30/2010 15:57	Tyler O Griffin	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

Page 3 of 3

Sample Description: TB-112310 Water
SSFL Area IV Collocated Soil Sampling
TB-112310

LLI Sample # WW 6149372
LLI Group # 1222698
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/23/2010 15:00

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

Submitted: 11/24/2010 09:50

Reported: 01/04/2011 16:55

TB-23 SDG#: DE022-09TB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01146	GC VOA Water Prep	SW-846 5030B	1	10334A20A	11/30/2010 15:57	Tyler O Griffin	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: 01/04/11 at 04:55 PM

Group Number: 1222698

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: B103191BB Sample number(s): 6149362, 6149364-6149368, 6149370									
Acetone	6.7 U	6.7	8.0	ug/kg	125		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	98		79-120		
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	133*		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	91		70-120		
Bromomethane	0.25 U	0.25	4.0	ug/kg	73		32-162		
2-Butanone	1.2 U	1.2	8.0	ug/kg	99		46-153		
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	100		72-120		
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	102		75-120		
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	93		75-120		
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	89		69-122		
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	98		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	84		43-146		
Chloroform	0.12 U	0.12	4.0	ug/kg	97		80-120		
Chloromethane	0.33 U	0.33	4.0	ug/kg	85		54-132		
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	98		78-120		
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	99		79-120		
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	104		22-131		
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	95		58-120		
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	94		77-120		
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	94		80-120		
Dibromomethane	0.24 U	0.24	4.0	ug/kg	96		80-120		
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	97		79-120		
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	98		78-120		
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	98		79-120		
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	71		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	96		71-129		
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	92		73-123		
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	96		80-120		
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	86		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	98		80-120		
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	78		72-123		
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	97		77-120		
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	89		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	98		80-120		
Freon 113	0.11 U	0.11	4.0	ug/kg	96		61-126		
Freon 133a	0.50 U	0.50	5.0	ug/kg	84		78-120		
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	99		57-120		
2-Hexanone	1.6 U	1.6	8.0	ug/kg	90		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	100		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: 01/04/11 at 04:55 PM

Group Number: 1222698

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	83		74-121		
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	93		61-134		
Methylene Chloride	0.24 U	0.24	4.0	ug/kg	85		76-124		
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	106		77-120		
Styrene	0.10 U	0.10	4.0	ug/kg	94		76-120		
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	93		80-120		
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	101		71-123		
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	94		77-120		
Toluene	0.10 J	0.08	4.0	ug/kg	98		80-120		
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	96		64-120		
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	93		68-120		
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	86		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	95		80-120		
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	79		58-133		
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	98		71-123		
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	100		79-120		
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	99		78-120		
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	82		53-120		
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	95		80-120		
o-Xylene	0.17 U	0.17	4.0	ug/kg	92		80-120		
Batch number: E103311AA	Sample number(s): 6149372								
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	99	102	60-132	3	30
Batch number: E103312AA	Sample number(s): 6149362, 6149364-6149368, 6149370								
1,4-Dioxane	5.0 U	5.0	15	ug/kg	104		70-130		
Batch number: E103351AA	Sample number(s): 6149371								
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	97		60-132		
Batch number: Y103331AA	Sample number(s): 6149372								
Acetone	6 U	6.	20	ug/l	123	120	49-234	3	30
Benzene	0.5 U	0.5	5	ug/l	98	96	79-120	2	30
Bromobenzene	1 U	1.	5	ug/l	103	104	80-120	2	30
Bromochloromethane	1 U	1.	5	ug/l	94	92	80-120	2	30
Bromodichloromethane	1 U	1.	5	ug/l	92	97	80-120	5	30
Bromoform	1 U	1.	5	ug/l	92	93	61-120	1	30
Bromomethane	1 U	1.	5	ug/l	102	101	44-120	1	30
2-Butanone	3 U	3.	10	ug/l	105	102	66-151	3	30
n-Butylbenzene	1 U	1.	5	ug/l	102	100	74-120	2	30
sec-Butylbenzene	1 U	1.	5	ug/l	109	107	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	99	98	80-120	1	30
Carbon Tetrachloride	1 U	1.	5	ug/l	102	103	75-123	1	30
Chlorobenzene	0.8 U	0.8	5	ug/l	97	95	80-120	2	30
Chloroethane	1 U	1.	5	ug/l	92	92	49-129	0	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	108	112	56-129	4	30
Chloroform	0.8 U	0.8	5	ug/l	99	99	77-122	0	30
Chloromethane	1 U	1.	5	ug/l	89	89	60-129	0	30
2-Chlorotoluene	1 U	1.	5	ug/l	107	104	80-120	3	30
4-Chlorotoluene	1 U	1.	5	ug/l	101	98	80-120	3	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	52	50	38-136	5	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	111	113	66-120	2	30
Dibromochloromethane	1 U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dibromoethane	1 U	1.	5	ug/l	100	98	80-120	1	30
Dibromomethane	1 U	1.	5	ug/l	97	97	80-120	0	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	97	96	80-120	1	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	101	101	80-120	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: 01/04/11 at 04:55 PM

Group Number: 1222698

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,4-Dichlorobenzene	1 U	1.	5	ug/l	99	98	80-120	1	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	77	83	47-120	8	30
1,1-Dichloroethane	1 U	1.	5	ug/l	99	103	79-120	4	30
1,2-Dichloroethane	1 U	1.	5	ug/l	99	98	70-130	0	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	108	105	74-123	2	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	98	97	80-120	0	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	98	99	80-120	1	30
1,2-Dichloropropane	1 U	1.	5	ug/l	98	98	78-120	0	30
1,3-Dichloropropane	1 U	1.	5	ug/l	100	99	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	91	93	77-124	2	30
1,1-Dichloropropene	1 U	1.	5	ug/l	100	98	80-120	2	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	88	91	80-120	3	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	92	94	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	100	99	79-120	2	30
Freon 113	2 U	2.	10	ug/l	121	119	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	76*	73*	77-120	4	30
Hexachlorobutadiene	2 U	2.	5	ug/l	96	96	58-120	1	30
2-Hexanone	3 U	3.	10	ug/l	107	106	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	98	97	77-120	2	30
p-Isopropyltoluene	1 U	1.	5	ug/l	106	104	80-120	2	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	96	100	76-120	4	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	103	105	70-121	2	30
Methylene Chloride	2 U	2.	5	ug/l	91	102	80-120	12	30
n-Propylbenzene	1 U	1.	5	ug/l	112	110	80-120	2	30
Styrene	1 U	1.	5	ug/l	98	97	80-120	1	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	99	97	80-120	2	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	111	110	71-120	1	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	97	97	80-121	1	30
Toluene	0.7 U	0.7	5	ug/l	101	99	79-120	2	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	98	97	65-120	0	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	97	96	67-120	1	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	97	99	75-127	2	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	100	98	80-120	2	30
Trichloroethene	1 U	1.	5	ug/l	94	95	80-120	1	30
Trichlorofluoromethane	2 U	2.	5	ug/l	110	110	64-129	0	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	115	109	80-120	5	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	110	106	74-120	4	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	107	105	75-120	2	30
Vinyl Chloride	1 U	1.	5	ug/l	82	83	65-125	1	30
m+p-Xylene	0.8 U	0.8	5	ug/l	94	92	80-120	2	30
o-Xylene	0.8 U	0.8	5	ug/l	97	94	80-120	3	30

Batch number: Y103352AA

Sample number(s): 6149371

Acetone	6 U	6.	20	ug/l	108	121	49-234	11	30
Benzene	0.5 U	0.5	5	ug/l	98	97	79-120	1	30
Bromobenzene	1 U	1.	5	ug/l	103	103	80-120	0	30
Bromochloromethane	1 U	1.	5	ug/l	95	93	80-120	2	30
Bromodichloromethane	1 U	1.	5	ug/l	92	91	80-120	1	30
Bromoform	1 U	1.	5	ug/l	91	89	61-120	2	30
Bromomethane	1 U	1.	5	ug/l	97	98	44-120	0	30
2-Butanone	3 U	3.	10	ug/l	107	107	66-151	0	30
n-Butylbenzene	1 U	1.	5	ug/l	99	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	100	100	75-123	1	30
Chlorobenzene	0.8 U	0.8	5	ug/l	96	95	80-120	1	30
Chloroethane	1 U	1.	5	ug/l	96	93	49-129	3	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	109	110	56-129	1	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: 01/04/11 at 04:55 PM

Group Number: 1222698

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Chloroform	0.8 U	0.8	5	ug/l	99	98	77-122	1	30
Chloromethane	1 U	1.	5	ug/l	85	84	60-129	1	30
2-Chlorotoluene	1 U	1.	5	ug/l	103	104	80-120	1	30
4-Chlorotoluene	1 U	1.	5	ug/l	98	98	80-120	0	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	96	93	38-136	3	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	113	110	66-120	2	30
Dibromochloromethane	1 U	1.	5	ug/l	92	92	80-120	1	30
1,2-Dibromoethane	1 U	1.	5	ug/l	99	98	80-120	0	30
Dibromomethane	1 U	1.	5	ug/l	94	94	80-120	0	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	97	95	80-120	2	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	100	99	80-120	1	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	98	96	80-120	2	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	73	73	47-120	0	30
1,1-Dichloroethane	1 U	1.	5	ug/l	102	101	79-120	0	30
1,2-Dichloroethane	1 U	1.	5	ug/l	100	99	70-130	1	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	99	99	74-123	0	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	99	80-120	1	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	98	98	80-120	0	30
1,2-Dichloropropane	1 U	1.	5	ug/l	96	96	78-120	0	30
1,3-Dichloropropane	1 U	1.	5	ug/l	100	98	80-120	2	30
2,2-Dichloropropane	1 U	1.	5	ug/l	93	93	77-124	1	30
1,1-Dichloropropene	1 U	1.	5	ug/l	98	99	80-120	1	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	88	87	80-120	1	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	92	92	79-120	1	30
Ethylbenzene	0.8 U	0.8	5	ug/l	100	98	79-120	2	30
Freon 113	2 U	2.	10	ug/l	113	112	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	99	97	77-120	1	30
Hexachlorobutadiene	2 U	2.	5	ug/l	92	96	58-120	3	30
2-Hexanone	3 U	3.	10	ug/l	108	110	65-136	2	30
Isopropylbenzene	1 U	1.	5	ug/l	97	97	77-120	0	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	95	96	76-120	1	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	104	105	70-121	1	30
Methylene Chloride	2 U	2.	5	ug/l	98	94	80-120	4	30
n-Propylbenzene	1 U	1.	5	ug/l	110	110	80-120	0	30
Styrene	1 U	1.	5	ug/l	96	95	80-120	1	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	98	97	80-120	1	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	111	109	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	99	99	79-120	0	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	96	96	65-120	0	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	96	95	67-120	1	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	101	100	75-127	1	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	95	94	80-120	2	30
Trichlorofluoromethane	2 U	2.	5	ug/l	97	98	64-129	1	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	108	110	80-120	1	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	105	105	74-120	0	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	104	103	75-120	1	30
Vinyl Chloride	1 U	1.	5	ug/l	80	82	65-125	2	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	93	80-120	2	30

Batch number: 10328WAE026
N-Nitrosodimethylamine

Sample number(s): 6149371
1.94 0.500 1.00

ng/l 103 99 70-130 4 30

Batch number: 10330SLB026
Acenaphthene

Sample number(s): 6149361-6149368, 6149370
17 U 17. 170

ug/kg 88 76-111

*- 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: 01/04/11 at 04:55 PM

Group Number: 1222698

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthylene	17	U	17.	170	ug/kg	90		75-122		
Aniline	170		170.	500	ug/kg	73		10-107		
	U									
Anthracene	17	U	17.	170	ug/kg	91		76-112		
Benzidine	1,200		1,200.	3,300	ug/kg	49		15-121		
	U									
Benzo(a)anthracene	17	U	17.	170	ug/kg	92		73-112		
Benzo(a)pyrene	17	U	17.	170	ug/kg	112		69-122		
Benzo(b)fluoranthene	17	U	17.	170	ug/kg	117		61-127		
Benzo(g,h,i)perylene	17	U	17.	170	ug/kg	115		65-122		
Benzo(k)fluoranthene	17	U	17.	170	ug/kg	109		67-125		
Benzoic acid	170		170.	500	ug/kg	82		10-154		
	U									
Benzyl alcohol	170		170.	500	ug/kg	90		68-111		
	U									
4-Bromophenyl-phenylether	17	U	17.	170	ug/kg	88		79-117		
Butylbenzylphthalate	17	U	17.	170	ug/kg	93		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	93		74-119		
4-Chloroaniline	67	U	67.	170	ug/kg	55		10-110		
bis(2-Chloroethoxy)methane	17	U	17.	170	ug/kg	87		70-118		
bis(2-Chloroethyl)ether	17	U	17.	170	ug/kg	81		70-104		
bis(2-Chloroisopropyl)ether	17	U	17.	170	ug/kg	80		68-131		
2-Chloronaphthalene	17	U	17.	170	ug/kg	90		67-127		
2-Chlorophenol	17	U	17.	170	ug/kg	87		72-112		
4-Chlorophenyl-phenylether	33	U	33.	170	ug/kg	94		79-110		
Chrysene	17	U	17.	170	ug/kg	92		76-113		
Dibenz(a,h)anthracene	17	U	17.	170	ug/kg	115		70-128		
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	82		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100		100.	330	ug/kg	73		38-105		
	U									
2,4-Dichlorophenol	17	U	17.	170	ug/kg	91		75-111		
Diethylphthalate	17	U	17.	170	ug/kg	93		76-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	118		70-130		
Dimethylphthalate	17	U	17.	170	ug/kg	92		77-109		
4,6-Dinitro-2-methylphenol	170		170.	500	ug/kg	76		53-110		
	U									
2,4-Dinitrophenol	670		670.	2,000	ug/kg	74		37-120		
	U									
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	93		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	91		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	89		77-111		
bis(2-Ethylhexyl)phthalate	17	U	17.	330	ug/kg	93		75-117		
Fluoranthene	17	U	17.	170	ug/kg	94		78-116		
Fluorene	17	U	17.	170	ug/kg	93		75-116		
Hexachlorobenzene	17	U	17.	170	ug/kg	90		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	86		70-112		
Hexachlorocyclopentadiene	170		170.	500	ug/kg	86		46-115		
	U									
Hexachloroethane	17	U	17.	170	ug/kg	80		68-105		
Indeno(1,2,3-cd)pyrene	17	U	17.	170	ug/kg	117		64-119		
Isophorone	17	U	17.	170	ug/kg	85		69-110		
1-Methylnaphthalene	17	U	17.	170	ug/kg	92		74-105		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222698

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
2-Methylnaphthalene	17 U	17.	170	ug/kg	85		76-105		
2-Methylphenol	33 U	33.	170	ug/kg	86		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	87		66-117		
Naphthalene	17 U	17.	170	ug/kg	85		73-106		
2-Nitroaniline	17 U	17.	170	ug/kg	92		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	90		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	71		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	85		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	86		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	82		56-118		
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	81		63-107		
N-Nitrosodimethylamine	33 U	33.	170	ug/kg	77		60-106		
N-Nitrosodiphenylamine	17 U	17.	170	ug/kg	92		67-141		
Di-n-octylphthalate	17 U	17.	170	ug/kg	120		68-130		
Pentachlorophenol	170 U	170.	500	ug/kg	87		35-106		
Phenanthrene	17 U	17.	170	ug/kg	90		77-113		
Phenol	17 U	17.	170	ug/kg	85		58-112		
Pyrene	17 U	17.	170	ug/kg	92		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	92		76-107		
2,4,6-Trichlorophenol	33 U	33.	170	ug/kg	95		78-111		
Batch number: 10333SLD026	Sample number(s): 6149362-6149365								
N-Nitrosodimethylamine	32.8 J	16.7	33.3	ng/kg	97		70-130		
Batch number: 10333SLH026	Sample number(s): 6149361-6149368, 6149370								
Acenaphthene	0.67 U	0.67	1.7	ug/kg	81		63-120		
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	80		60-120		
Anthracene	0.33 U	0.33	1.7	ug/kg	82		55-120		
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	89		74-120		
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	81		58-129		
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	91		63-143		
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	77		44-138		
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	90		66-137		
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	87		65-131		
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	87		84-132		
Chrysene	0.33 U	0.33	1.7	ug/kg	88		79-120		
Dibenz(a,h)anthracene	0.67 U	0.67	1.7	ug/kg	80		62-142		
Diethylphthalate	6.0 U	6.0	18	ug/kg	89		68-125		
Dimethylphthalate	6.0 U	6.0	18	ug/kg	91		70-130		
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	93		67-143		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	88		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	89		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	81		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	75		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	79		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	91		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	83		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	83		56-121		
Batch number: 10332A34A	Sample number(s): 6149362, 6149364-6149365								
9a TPH by EPA 8015B Gas	0.2 U	0.2	1.0	mg/kg	73	77	67-119	6	30
Batch number: 10334A20A	Sample number(s): 6149371-6149372								

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222698

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
TPH-GRO S.CA water C5-C12	20	U	20.	50	ug/l	109	109	75-135	0	30
Batch number: 103300007A Sample number(s): 6149362-6149365										
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	112		80-120		
2,6-Diamino-4-nitrotoluene	100		100.	300	ug/kg	93	96	54-134	3	30
U										
2,4-Diamino-6-nitrotoluene	100		100.	300	ug/kg	93	96	54-134	3	30
U										
1,3-Dinitrobenzene	50	U	50.	150	ug/kg	110		51-171		
2,4-Dinitrotoluene	50	U	50.	150	ug/kg	107		72-135		
2,6-Dinitrotoluene	50	U	50.	150	ug/kg	108		80-120		
HMX	130		130.	380	ug/kg	99		74-130		
U										
Nitrobenzene	50	U	50.	150	ug/kg	106		80-120		
Nitroglycerin	1,000		1,000.	3,000	ug/kg	99		80-120		
U										
2-Nitrotoluene	100		100.	150	ug/kg	111		78-128		
U										
3-Nitrotoluene	130		130.	150	ug/kg	109		73-127		
U										
4-Nitrotoluene	100		100.	150	ug/kg	108		80-120		
U										
PETN	1,000		1,000.	3,000	ug/kg	109		80-120		
U										
RDX	63	U	63.	150	ug/kg	104		75-131		
Tetryl	77	U	77.	150	ug/kg	112		70-168		
1,3,5-Trinitrobenzene	50	U	50.	150	ug/kg	116		77-137		
2,4,6-Trinitrotoluene	50	U	50.	150	ug/kg	108		80-120		
Batch number: 103330020A Sample number(s): 6149371										
4-Amino-2,6-Dinitrotoluene	0.30	U	0.30	0.60	ug/l	99	99	80-120	0	30
2-Amino-4,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	96	97	80-120	1	30
2,6-Diamino-4-nitrotoluene	0.20	U	0.20	0.60	ug/l	83	80	75-125	4	30
2,4-Diamino-6-nitrotoluene	0.20	U	0.20	0.60	ug/l	83	80	75-125	4	30
1,3-Dinitrobenzene	0.60	J	0.20	0.60	ug/l	170*	110	72-117	43*	30
2,4-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	93	93	80-120	0	30
2,6-Dinitrotoluene	0.20	U	0.20	0.60	ug/l	100	100	80-120	0	30
HMX	0.65	U	0.65	2.0	ug/l	97	100	65-125	3	30
Nitrobenzene	0.20	U	0.20	0.60	ug/l	91	92	75-121	1	30
Nitroglycerin	5.2	U	5.2	15	ug/l	96	96	80-120	0	30
2-Nitrotoluene	0.20	U	0.20	0.60	ug/l	94	94	74-120	0	30
3-Nitrotoluene	0.40	U	0.40	1.2	ug/l	90	93	69-107	3	30
4-Nitrotoluene	0.60	U	0.60	1.2	ug/l	91	92	80-120	1	30
PETN	6.0	U	6.0	18	ug/l	96	100	80-120	4	30
RDX	0.20	U	0.20	0.60	ug/l	91	93	70-125	2	30
Tetryl	0.40	U	0.40	0.60	ug/l	110	100	33-147	10	30
1,3,5-Trinitrobenzene	0.20	U	0.20	0.60	ug/l	110	110	53-129	0	30
2,4,6-Trinitrotoluene	0.20	U	0.20	0.60	ug/l	95	94	76-109	1	30
Batch number: 103280016A Sample number(s): 6149371										
17b Formaldehyde by 8315A	10	U	10.	50	ug/l	90	92	69-130	2	30
Batch number: 103300006A Sample number(s): 6149362-6149365										
17a Formaldehyde by 8315A	600		600.	1,500	ug/kg	103		80-126		
U										
Batch number: 103330019A Sample number(s): 6149365										

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222698

<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>
6a Perchlorate EPA 6850	2.1	U	2.1	5.0	ug/kg	96		70-130		
Batch number: 103350002A	Sample number(s): 6149361-6149368, 6149370									
Aroclor 5432	1.0	U	1.0	3.3	ug/kg					
Aroclor 5442	1.0	U	1.0	3.3	ug/kg	72*	79	75-125	9	30
Aroclor 5460	1.0	U	1.0	3.3	ug/kg					
PCB-1016	0.33	U	0.33	1.7	ug/kg	104		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	127		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: 103330011A	Sample number(s): 6149362-6149365									
EFH (C12-C14)	0.40	U	0.40	1.2	mg/kg	90		66-113		
EFH (C15-C20)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C21-C30)	0.40	U	0.40	1.2	mg/kg	101		66-113		
EFH (C30 - C40)	0.40	U	0.40	1.2	mg/kg	96		66-113		
EFH (C8-C11)	0.40	U	0.40	1.2	mg/kg	85		66-113		
Batch number: 103430003A	Sample number(s): 6149371									
EFH (C12-C14)	0.10	U	0.10	0.60	mg/l	96	90	60-120	6	30
EFH (C15-C20)	0.10	U	0.10	0.60	mg/l	97	91	60-120	7	30
EFH (C21-C30)	0.10	U	0.10	0.60	mg/l	92	85	60-120	9	30
EFH (C30 - C40)	0.10	U	0.10	0.60	mg/l	100	93	60-120	7	30
EFH (C8-C11)	0.10	U	0.10	0.60	mg/l	76	68	60-120	11	30
Batch number: 103330001A	Sample number(s): 6149362-6149365									
Ethanol	100	U	100.	500	ug/kg	184*		75-112		
Isopropanol	100	U	100.	500	ug/kg	178*		75-125		
Methanol	100	U	100.	500	ug/kg	207*		75-134		
Batch number: 103330002A	Sample number(s): 6149371									
Diethylene glycol	13	J	10.	100	mg/l	95		78-126		
Ethylene glycol	10	U	10.	100	mg/l	90		80-124		
Propylene glycol	10	U	10.	100	mg/l	90		80-120		
Batch number: 103330003A	Sample number(s): 6149371									
Ethanol	200	U	200.	1,000	ug/l	96		66-132		
Isopropanol	200	U	200.	1,000	ug/l	100		75-125		
Methanol	200	U	200.	1,000	ug/l	92		77-137		
Batch number: 103340009A	Sample number(s): 6149362-6149365									
Diethylene glycol	5.0	U	5.0	13	mg/kg	95		75-125		
Ethylene glycol	5.0	U	5.0	13	mg/kg	94		75-125		
Propylene glycol	5.0	U	5.0	13	mg/kg	97		75-125		
Batch number: 103330008A	Sample number(s): 6149371									
m-Terphenyl	0.080	U	0.080	0.25	mg/l	92	96	75-125	4	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222698

<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>
o-Terphenyl	0.080 U	0.080	0.25	mg/l	98	100	75-125	2	20
p-Terphenyl	0.080 U	0.080	0.25	mg/l	93	95	75-125	2	20
Batch number: 103330028A	Sample number(s): 6149362-6149365								
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	97		75-125		
Batch number: 10328001	Sample number(s): 6149371								
1,1-Dimethylhydrazine	0.25 U	0.25	0.50	ug/l	105	96	70-130	10	25
Hydrazine	0.050 U	0.050	0.10	ug/l	106	97	70-130	9	25
Methylhydrazine	0.25 U	0.25	0.50	ug/l	104	101	70-130	3	25
Batch number: 10334001	Sample number(s): 6149362-6149365								
1,1-Dimethylhydrazine	2.0 U	2.0	5.0	ng/g	100	98	70-130	3	30
Hydrazine	0.50 U	0.50	2.0	ng/g	108	94	70-130	13	30
Methylhydrazine	2.0 U	2.0	5.0	ng/g	104	101	70-130	3	30
Batch number: 103281026001A	Sample number(s): 6149361-6149370								
Antimony	0.0659 J	0.0600	0.200	mg/kg	97		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	98		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	110		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	109		80-120		
Cobalt	0.0200 U	0.0200	0.100	mg/kg	108		82-118		
Copper	0.200 J	0.0660	0.400	mg/kg	100		80-120		
Lead	0.0104 U	0.0104	0.200	mg/kg	103		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	109		80-120		
Silver	0.0120 U	0.0120	0.100	mg/kg	107		66-134		
Thallium	0.0300 U	0.0300	0.100	mg/kg	110		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	111		78-122		
Batch number: 103281026001B	Sample number(s): 6149361-6149370								
Selenium	0.0400 U	0.0400	0.400	mg/kg	109		79-122		
Batch number: 103281026001C	Sample number(s): 6149361-6149370								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	118		78-122		
Batch number: 103281026001D	Sample number(s): 6149361-6149370								
Barium	0.108 U	0.108	0.400	mg/kg	104		79-121		
Batch number: 103285708005	Sample number(s): 6149361-6149370								
Aluminum	5.03 U	5.03	20.0	mg/kg	95		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	93		78-110		
Calcium	10.2 J	6.13	20.0	mg/kg	100		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	92		61-110		
Lithium	0.35 J	0.22	2.0	mg/kg	98		80-120		
Magnesium	9.32 J	2.54	10.0	mg/kg	97		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	102		81-119		
Phosphorus	1.33 J	0.560	10.0	mg/kg	107		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	93		78-110		
Sodium	37.3 U	37.3	100	mg/kg	99		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	108		79-121		
Tin	1.14 J	1.00	10.0	mg/kg	101		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	90		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	106		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222698

<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: 103285711001 Mercury	0.0028 U	0.0028	0.0967	mg/kg	99		88-123		
Batch number: 10327196902B 11b Anions by 300.0 - Nitrate	0.050 U	0.050	0.10	mg/l	105	104	90-110	1	20
Batch number: 10334117102A 21b Cyanide by 9012B	0.0050 U	0.0050	0.010	mg/l	104	97	90-110	7	20
Batch number: 10337102201A 21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	105		80-120		
Batch number: 10337337202A 11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	103		90-110		
Batch number: 10340340201A 7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	102		85-115		
Batch number: 10341341201A 11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	101		90-110		
Batch number: 10341341201A 11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	100		90-110		
Batch number: 10341341201B 11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	101		90-110		
Batch number: 10347243201A 3a Cr VI by EPA 7199	5.0 U	5.0	1.0	mg/kg	99		80-120		
Batch number: 10328020001B 22b pH by 9040B					100		99-101		
Batch number: 10328039401A 22a pH by 9045C					100		95-105		
Batch number: 10328182101A Oxidation Reduction Potential					99		98-102		
Batch number: 10334162401A 28a Total Solids by 160.3					100		80-120		
Batch number: 10334162401A 28a Total Solids by 160.3					100		80-120		
Batch number: 10334162401A 28a Total Solids by 160.3					100		80-120		
Batch number: 10342162401A 28a Total Solids 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: B103191BB Acetone	116	126	15-210	8	30				

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Quality Control Summary

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Reported: 01/04/11 at 04:55 PM

Group Number: 1222698

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</u> <u>RPD</u> <u>Max</u>
Benzene	104	102	55-143	2	30				
Bromobenzene	101	98	43-139	2	30				
Bromochloromethane	136	131	60-137	3	30				
Bromodichloromethane	96	95	53-136	0	30				
Bromoform	89	89	38-124	2	30				
Bromomethane	76	76	42-168	1	30				
2-Butanone	89	96	37-163	9	30				
n-Butylbenzene	101	100	30-146	1	30				
sec-Butylbenzene	105	103	33-157	2	30				
tert-Butylbenzene	96	94	41-152	2	30				
Carbon Tetrachloride	94	91	45-153	3	30				
Chlorobenzene	101	99	49-135	1	30				
Chloroethane	82	83	39-152	2	30				
2-Chloroethyl Vinyl Ether	78	83	32-139	7	30				
Chloroform	101	97	61-142	3	30				
Chloromethane	89	92	51-163	4	30				
2-Chlorotoluene	102	97	42-146	3	30				
4-Chlorotoluene	101	98	39-145	3	30				
Chlorotrifluoroethene	65*	64*	70-130	4	30				
1,2-Dibromo-3-chloropropane	81	89	30-139	10	30				
Dibromochloromethane	94	94	51-128	1	30				
1,2-Dibromoethane	92	93	54-129	2	30				
Dibromomethane	94	94	57-130	1	30				
1,2-Dichlorobenzene	99	97	36-133	2	30				
1,3-Dichlorobenzene	101	97	34-134	3	30				
1,4-Dichlorobenzene	99	97	35-136	2	30				
Dichlorodifluoromethane	77	77	26-151	1	30				
1,1-Dichloroethane	102	101	63-142	1	30				
1,2-Dichloroethane	96	95	68-131	0	30				
1,1-Dichloroethene	97	95	61-149	1	30				
cis-1,2-Dichloroethene	98	98	60-136	0	30				
trans-1,2-Dichloroethene	89	86	59-142	2	30				
1,2-Dichloropropane	102	100	62-135	1	30				
1,3-Dichloropropane	97	98	58-129	2	30				
2,2-Dichloropropane	80	79	53-147	0	30				
1,1-Dichloropropene	102	99	54-145	2	30				
cis-1,3-Dichloropropene	91	91	51-131	0	30				
trans-1,3-Dichloropropene	85	85	49-129	1	30				
Ethylbenzene	100	98	44-141	1	30				
Freon 113	104	104	56-156	1	30				
Freon 133a	78	78	70-130	2	30				
Hexachlorobutadiene	95	96	10-155	1	30				
2-Hexanone	81	90	32-160	11	30				
Isopropylbenzene	96	96	38-144	0	30				
p-Isopropyltoluene	102	99	29-152	2	30				
Methyl Tertiary Butyl Ether	80	82	55-129	3	30				
4-Methyl-2-pentanone	83	88	46-139	6	30				
Methylene Chloride	86	85	61-141	1	30				
n-Propylbenzene	108	105	39-157	2	30				
Styrene	98	96	35-134	2	30				
1,1,1,2-Tetrachloroethane	96	94	52-130	2	30				
1,1,2,2-Tetrachloroethane	95	98	40-152	4	30				
Tetrachloroethene	99	97	42-149	2	30				

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222698

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Toluene	100	98	50-146	1	30				
1,2,3-Trichlorobenzene	94	94	10-140	0	30				
1,2,4-Trichlorobenzene	91	91	10-136	1	30				
1,1,1-Trichloroethane	88	88	64-142	0	30				
1,1,2-Trichloroethane	97	95	54-139	1	30				
Trichloroethene	98	97	53-144	1	30				
Trichlorofluoromethane	86	86	47-163	1	30				
1,2,3-Trichloropropane	92	93	45-154	2	30				
1,2,4-Trimethylbenzene	103	99	37-149	3	30				
1,3,5-Trimethylbenzene	100	97	38-150	2	30				
Vinyl Chloride	86	90	50-154	5	30				
m+p-Xylene	98	96	44-137	1	30				
o-Xylene	94	92	42-137	1	30				
Batch number: E103312AA	Sample number(s): 6149362, 6149364-6149368, 6149370 UNSPK: 6149366								
1,4-Dioxane	106	109	70-130	18	30				
Batch number: E103351AA	Sample number(s): 6149371 UNSPK: P151866								
1,4-Dioxane	100	119	50-150	8	30				
Batch number: 10330SLB026	Sample number(s): 6149361-6149368, 6149370 UNSPK: 6149366								
Acenaphthene	89	88	75-115	1	30				
Acenaphthylene	92	91	49-126	1	30				
Aniline	52	65	14-114	21	30				
Anthracene	93	90	75-115	3	30				
Benazidine	28*	35	35-141	23	30				
Benzo(a)anthracene	94	92	65-122	2	30				
Benzo(a)pyrene	110	110	57-126	0	30				
Benzo(b)fluoranthene	115	114	59-125	1	30				
Benzo(g,h,i)perylene	116	103	59-127	12	30				
Benzo(k)fluoranthene	102	112	56-132	10	30				
Benzoic acid	36	51	10-173	33*	30				
Benzyl alcohol	82	88	55-123	7	30				
4-Bromophenyl-phenylether	94	90	67-129	4	30				
Butylbenzylphthalate	96	97	73-134	1	30				
Di-n-butylphthalate	90	92	67-123	3	30				
Carbazole	91	89	64-120	2	30				
4-Chloro-3-methylphenol	82	92	53-130	12	30				
4-Chloroaniline	43	45	23-95	3	30				
bis(2-Chloroethoxy)methane	84	84	54-117	0	30				
bis(2-Chloroethyl)ether	79	79	60-116	1	30				
bis(2-Chloroisopropyl)ether	75	72	55-142	4	30				
2-Chloronaphthalene	91	86	50-141	5	30				
2-Chlorophenol	84	88	73-121	4	30				
4-Chlorophenyl-phenylether	92	96	64-119	5	30				
Chrysene	92	90	62-128	3	30				
Dibenz(a,h)anthracene	120	103	65-125	15	30				
Dibenzofuran	91	92	71-112	2	30				
1,2-Dichlorobenzene	84	81	66-108	3	30				
1,3-Dichlorobenzene	83	79	63-109	4	30				
1,4-Dichlorobenzene	84	83	53-113	2	30				
3,3'-Dichlorobenzidine	82	58	25-123	33*	30				
2,4-Dichlorophenol	89	94	78-117	6	30				

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Quality Control Summary

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Reported: 01/04/11 at 04:55 PM

Group Number: 1222698

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Diethylphthalate	87	93	66-118	6	30				
2,4-Dimethylphenol	86	89	56-130	4	30				
3,5-Dimethylphenol	106	113	70-130	6	30				
Dimethylphthalate	88	92	64-118	4	30				
4,6-Dinitro-2-methylphenol	29	78	10-148	91*	30				
2,4-Dinitrophenol	23	56	20-143	84*	30				
2,4-Dinitrotoluene	78	92	57-114	16	30				
2,6-Dinitrotoluene	83	92	69-123	11	30				
1,2-Diphenylhydrazine	91	85	71-129	7	30				
bis(2-Ethylhexyl)phthalate	100	97	63-122	3	30				
Fluoranthene	90	90	59-122	1	30				
Fluorene	89	93	60-125	4	30				
Hexachlorobenzene	97	91	61-111	6	30				
Hexachlorobutadiene	93	86	62-120	8	30				
Hexachlorocyclopentadiene	23	86	10-153	117*	30				
Hexachloroethane	67	80	57-109	17	30				
Indeno(1,2,3-cd)pyrene	118	104	61-126	13	30				
Isophorone	83	82	51-118	0	30				
1-Methylnaphthalene	87	93	73-112	6	30				
2-Methylnaphthalene	83	85	76-114	3	30				
2-Methylphenol	79	85	47-142	7	30				
4-Methylphenol	76	84	55-126	11	30				
Naphthalene	87	87	72-116	0	30				
2-Nitroaniline	92	91	67-125	1	30				
3-Nitroaniline	90	88	59-122	2	30				
4-Nitroaniline	76	68	52-112	10	30				
Nitrobenzene	85	83	51-114	3	30				
2-Nitrophenol	84	89	74-115	5	30				
4-Nitrophenol	74	79	39-133	6	30				
N-Nitroso-di-n-propylamine	75	77	60-116	3	30				
N-Nitrosodimethylamine	78	75	47-116	4	30				
N-Nitrosodiphenylamine	97	91	86-145	7	30				
Di-n-octylphthalate	117	128*	56-126	9	30				
Pentachlorophenol	87	81	17-149	7	30				
Phenanthrene	90	88	65-125	1	30				
Phenol	74	79	58-126	6	30				
Pyrene	90	94	51-151	5	30				
1,2,4-Trichlorobenzene	92	89	72-115	4	30				
2,4,5-Trichlorophenol	92	94	34-139	2	30				
2,4,6-Trichlorophenol	97	94	49-140	2	30				
Batch number: 10333SLD026	Sample number(s): 6149362-6149365 UNSPK: P144599								
N-Nitrosodimethylamine	100	105	70-130	5	30				
Batch number: 10333SLH026	Sample number(s): 6149361-6149368,6149370 UNSPK: 6149366								
Acenaphthene	88	81	63-105	8	30				
Acenaphthylene	88	81	55-126	8	30				
Anthracene	89	84	46-136	6	30				
Benzo(a)anthracene	94	90	39-144	5	30				
Benzo(a)pyrene	86	83	34-156	4	30				
Benzo(b)fluoranthene	99	95	43-155	4	30				
Benzo(g,h,i)perylene	66	61	33-141	8	30				
Benzo(k)fluoranthene	89	83	42-144	6	30				

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Quality Control Summary

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Reported: 01/04/11 at 04:55 PM

Group Number: 1222698

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Butylbenzylphthalate	93	85	73-140	8	30				
Di-n-butylphthalate	99	88	78-160	12	30				
Chrysene	92	87	29-156	6	30				
Dibenz(a,h)anthracene	75	70	41-130	7	30				
Diethylphthalate	100	87	87-131	13	30				
Dimethylphthalate	98	91	74-118	7	30				
Bis(2-Ethylhexyl)phthalate	103	95	39-167	9	30				
Fluoranthene	94	89	26-166	5	30				
Fluorene	95	89	45-121	7	30				
Indeno(1,2,3-cd)pyrene	74	70	21-143	7	30				
1-Methylnaphthalene	91	86	72-123	6	30				
2-Methylnaphthalene	82	76	28-121	7	30				
Naphthalene	86	81	61-102	5	30				
N-Nitrosodimethylamine	76	71	48-113	6	30				
Di-n-octylphthalate	96	87	40-192	9	30				
Phenanthrene	88	83	12-165	6	30				
Pyrene	87	82	15-153	6	30				

Batch number: 10334A20A
TPH-GRO S.CA water C5-C12

Sample number(s): 6149371-6149372 UNSPK: P149948
122 63-154

Batch number: 103300007A
4-Amino-2,6-Dinitrotoluene
2-Amino-4,6-Dinitrotoluene
1,3-Dinitrobenzene
2,4-Dinitrotoluene
2,6-Dinitrotoluene
HMX
Nitrobenzene
Nitroglycerin
2-Nitrotoluene
3-Nitrotoluene
4-Nitrotoluene
PETN
RDX
Tetryl
1,3,5-Trinitrobenzene
2,4,6-Trinitrotoluene

Sample number(s): 6149362-6149365 UNSPK: P148497
106 108 80-127 1 50
109 111 80-137 2 50
108 110 38-166 2 50
106 107 80-131 1 50
110 110 80-127 1 50
97 99 63-128 2 50
109 108 80-125 1 50
104 106 80-120 2 50
111 113 80-122 1 50
110 111 72-119 1 50
108 110 80-125 2 50
108 110 80-121 2 50
93 94 75-129 1 50
105 108 55-174 3 50
115 115 82-126 0 50
106 108 82-130 2 50

Batch number: 103300006A
17a Formaldehyde by 8315A

Sample number(s): 6149362-6149365 UNSPK: P144599
98 101 80-120 3 50

Batch number: 103330019A
6a Perchlorate EPA 6850

Sample number(s): 6149365 UNSPK: P147113
102 160* 70-130 44* 30

Batch number: 103350002A
PCB-1016
PCB-1260

Sample number(s): 6149361-6149368,6149370 UNSPK: 6149366
82 99 29-146 19 50
96 109 39-149 12 50

Batch number: 103330011A
EFH (C12-C14)
EFH (C15-C20)
EFH (C21-C30)

Sample number(s): 6149362-6149365 UNSPK: P148499
77 80 49-123 3 20
90 96 49-123 6 20
103 108 49-123 5 20

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Quality Control Summary

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Reported: 01/04/11 at 04:55 PM

Group Number: 1222698

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
EFH (C30 - C40)	114	102	49-123	11	20				
EFH (C8-C11)	73	58	49-123	22*	20				
Batch number: 103330001A	Sample number(s): 6149362-6149365 UNSPK: 6149362								
Ethanol	124	100	24-143	21*	20				
Isopropanol	115	103	75-125	12	20				
Methanol	143*	98	45-136	38*	20				
Batch number: 103330002A	Sample number(s): 6149371 UNSPK: 6149371								
Diethylene glycol	100	100	83-130	0	20				
Ethylene glycol	105	105	89-125	0	20				
Propylene glycol	95	90*	91-128	5	20				
Batch number: 103330003A	Sample number(s): 6149371 UNSPK: P149513								
Ethanol	112	120	69-125	7	20				
Isopropanol	108	112	75-125	4	20				
Methanol	128	144*	61-131	12	20				
Batch number: 103340009A	Sample number(s): 6149362-6149365 UNSPK: 6149362								
Diethylene glycol	103	83	59-109	22*	20				
Ethylene glycol	104	92	63-107	13	20				
Propylene glycol	103	88	63-107	15	20				
Batch number: 103330028A	Sample number(s): 6149362-6149365 UNSPK: P148497								
m-Terphenyl	89	89	75-125	0	20				
o-Terphenyl	92	92	75-125	1	20				
p-Terphenyl	89	90	75-125	1	20				
Batch number: 10328001	Sample number(s): 6149371 UNSPK: 6149371								
1,1-Dimethylhydrazine	94	98	70-130	4	25				
Hydrazine	100	102	70-130	2	25				
Methylhydrazine	105	106	70-130	1	25				
Batch number: 10334001	Sample number(s): 6149362-6149365 UNSPK: 6150588								
1,1-Dimethylhydrazine	39	41	10-116	5	30				
Hydrazine	10*	10*	11-102	0	30				
Methylhydrazine	11	11	10-92	2	30				
Batch number: 103281026001A	Sample number(s): 6149361-6149370 UNSPK: 6149366 BKG: 6149366								
Antimony	37*	33*	75-125	9	20	0.169 J	0.114 J	39* (1)	20
Arsenic	135*	104	75-125	9	20	4.69	4.34	8	20
Beryllium	91	83	75-125	5	20	0.554	0.495	11	20
Cadmium	109	113	75-125	3	20	0.0533 J	0.0457 J	15 (1)	20
Chromium	114	70*	75-125	18	20	15.2	14.3	6	20
Cobalt	106	87	75-125	18	20	5.85	5.43	8	20
Copper	111	79	75-125	21*	20	5.53	5.56	0	20
Lead	146*	89	75-125	20	20	4.85	4.71	3	20
Nickel	117	73*	75-125	23*	20	9.20	8.44	9	20
Silver	124	101	75-125	20	20	0.0199 J	0.0117 U	200* (1)	20
Thallium	126*	91	75-125	19	20	0.278	0.270	3 (1)	20
Vanadium	115	18*	75-125	24*	20	33.2	30.4	9	20
Zinc	145 (2)	51 (2)	75-125	15	20	51.3	48.1	6	20

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 103281026001B Selenium	125	106	75-125	15	20	0.118 J	BKG: 6149366 0.0623 J	62* (1)	20
Batch number: 103281026001C Molybdenum	114	97	75-125	16	20	0.171	BKG: 6149366 0.174	2 (1)	20
Batch number: 103281026001D Barium	-9 (2)	-294 (2)	75-125	24*	20	132	BKG: 6149366 101	27*	20
Batch number: 103285708005 Aluminum	940 (2)	1353 (2)	75-125	5	20	12,000	BKG: 6149366 12,300	3	20
Boron	97	97	84-115	1	20	0.975 J	0.864 U	200* (1)	20
Calcium	224 (2)	199 (2)	75-125	3	20	2,520	2,650	5	20
Iron	407 (2)	1166 (2)	75-125	4	20	18,800	19,400	3	20
Lithium	99	101	82-114	0	20	24.2	26.2	8	20
Magnesium	175 (2)	261 (2)	75-125	3	20	4,550	4,730	4	20
Manganese	85 (2)	120 (2)	75-125	6	20	240	277	14	20
Phosphorus	112	114	75-125	0	20	216	226	5	20
Potassium	112	130*	75-125	5	20	1,640	1,680	3	20
Sodium	105	105	75-125	1	20	284	299	5 (1)	20
Strontium	102	103	75-115	1	20	21.8	24.0	10	20
Tin	91	90	80-110	3	20	2.31 J	2.38 J	3 (1)	20
Titanium	445 (2)	344 (2)	75-125	7	20	1,150	1,180	2	20
Zirconium	101	101	75-125	2	20	4.13 J	4.87	17 (1)	20
Batch number: 103285711001 Mercury	106	99	65-135	5	20	0.0028 U	BKG: 6149366 0.0027 U	0 (1)	20
Batch number: 10337102201A 21a Cyanide by 9012B	112		75-125			0.18 U	BKG: P147114 0.18 U	0 (1)	20
Batch number: 10337337202A 11a Anions by 300.0 - Fluoride	78*		80-120			3.2	BKG: P147113 4.3	31* (1)	20
Batch number: 10340340201A 7a Perchlorate EPA 314.0	114		80-120			9.0 U	BKG: 6149366 9.0 U	0 (1)	15
Batch number: 10341341201A 11a Anions by 300.0 - Fluoride	64*		80-120			8.8	BKG: P147114 6.3	33*	20
11a Anions by 300.0 - Nitrate	91		80-120			1.4 J	1.4 J	4 (1)	20
Batch number: 10341341201B 11a Anions by 300.0 - Fluoride	50*		80-120			5.1	BKG: 6149366 4.6	9 (1)	20
Batch number: 10347243201A 3a Cr VI by EPA 7199	99		75-125			2.4	BKG: 6149366 0.20 U	200* (1)	20
Batch number: 10328020001B 22b pH by 9040B						7.9	BKG: P149319 7.9	0	1

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Quality Control Summary

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Group Number: 1222698

Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10328039401A 22a pH by 9045C	Sample number(s): 6149361-6149366, 6149369-6149370					7.39	7.41	6149366 0	1
Batch number: 10328182101A Oxidation Reduction Potential	Sample number(s): 6149361-6149366, 6149369-6149370					513	512	6149366 0	6
Batch number: 10334162401A 28a Total Solids by 160.3	Sample number(s): 6149361, 6149366-6149370					4.3	4.1	6149366 4	20
28a Total Solids by 160.3						4.3	4.1	4	20
28a Total Solids by 160.3						4.3	4.1	4	20
Batch number: 10342162401A 28a Total Solids by 160.3	Sample number(s): 6149362-6149365					10	9.8	6149363 2	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: B103191BB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6149362	98	102	100	85
6149364	97	100	97	88
6149365	98	102	97	87
6149366	98	101	98	89
6149367	94	99	100	95
6149368	95	102	99	95
6149370	96	101	98	88
Blank	97	100	97	89
LCS	95	104	99	94
MS	94	99	100	95
MSD	95	102	99	95

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

Analysis Name: 14b 1,4-Dioxane by 8260B SIM

Batch number: E103311AA

Toluene-d8

6149372	102
Blank	101
LCS	101
LCSD	101

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM

Batch number: E103312AA

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222698

Surrogate Quality Control

Toluene-d8

6149362	98
6149364	101
6149365	101
6149366	102
6149367	101
6149368	101
6149370	100
Blank	99
LCS	98
MS	101
MSD	101

Limits: 70-130

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103351AA
Toluene-d8

6149371	102
Blank	101
LCS	100
MS	102
MSD	101

Limits: 80-120

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103331AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6149372	99	98	104	99
Blank	99	98	104	99
LCS	100	100	106	104
LCSD	100	97	104	103

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

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103352AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6149371	99	99	104	100
Blank	101	98	104	101
LCS	102	101	106	104
LCSD	101	100	104	105

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

Analysis Name: 19b NDMA by 1625C
Batch number: 10328WAE026

N-Nitrosodimethylamine-
d6

6149371	135
Blank	92

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 04:55 PM

Group Number: 1222698

Surrogate Quality Control

LCS 92
LCSD 105

Limits: 50-150

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10330SLB026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6149361	84	87	102	81	87	84
6149362	86	89	102	85	93	85
6149363	86	89	94	80	85	88
6149364	84	87	94	79	85	82
6149365	81	85	94	81	87	84
6149366	85	89	92	85	98	84
6149367	84	88	90	85	95	84
6149368	88	91	98	82	89	88
6149370	82	87	93	79	85	79
Blank	80	84	86	80	85	78
LCS	89	91	97	84	89	86
MS	84	88	90	85	95	84
MSD	88	91	98	82	89	88

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

Analysis Name: 19a NDMA by 1625C
Batch number: 10333SLD026

N-Nitrosodimethylamine-d6

6149362 88
6149363 100
6149364 20*
6149365 55
Blank 90
LCS 69
MS 72
MSD 66

Limits: 50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10333SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6149361	77	82	80
6149362	75	80	79
6149363	77	81	80
6149364	70	73	74
6149365	73	80	81
6149366	78	83	83
6149367	81	83	80
6149368	76	79	78
6149370	68	71	74
Blank	74	80	81
LCS	75	80	77
MS	81	83	80

*- 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: 01/04/11 at 04:55 PM

Group Number: 1222698

Surrogate Quality Control

MSD	76	79	78
Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas
Batch number: 10332A34A
Trifluorotoluene-F

6149362	86
6149364	87
6149365	88
Blank	103
LCS	98
LCSD	105

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas
Batch number: 10334A20A
Trifluorotoluene-F

6149371	84
6149372	84
Blank	84
LCS	111
LCSD	107
MS	139*

Limits: 63-135

Analysis Name: 17b Formaldehyde by 8315A
Batch number: 103280016A
Butyraldehyde

6149371	59
Blank	84
LCS	88
LCSD	90

Limits: 45-145

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103300006A
Butyraldehyde

6149362	103
6149363	103
6149364	105
6149365	101
Blank	101
LCS	101
MS	95
MSD	99

Limits: 64-126

Analysis Name: 20a Energetics by 8330A

*- 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: 01/04/11 at 04:55 PM

Group Number: 1222698

Surrogate Quality Control

Batch number: 103300007A
2-Nitro-m-xylene

6149362	121
6149363	117
6149364	115
6149365	107
Blank	129
LCS	116
LCSD	117
MS	116
MSD	125

Limits: 80-146

Analysis Name: 20b Energetics by 8330A
Batch number: 103330020A
2-Nitro-m-xylene

6149371	124
Blank	106
LCS	127
LCSD	113

Limits: 50-134

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103350002A
Tetrachloro-m-xylene Decachlorobiphenyl

6149361	93	100
6149362	83	89
6149363	103	106
6149364	93	101
6149365	99	107
6149366	75	81
6149367	75	91
6149368	110	103
6149370	92	107
Blank	103	111
LCS	110	119
LCSD	95	103
MS	75	91
MSD	110	103

Limits: 53-139 45-120

Analysis Name: 25a Alcohols by 8015B
Batch number: 103330001A
Acetone

6149362	100
6149363	86
6149364	71
6149365	104
Blank	148*
LCS	153*

*- 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: 01/04/11 at 04:55 PM

Group Number: 1222698

Surrogate Quality Control

MS 100
MSD 93

Limits: 42-138

Analysis Name: 27b Glycols by 8015B
Batch number: 103330002A
Tetramethylene glycol

6149371 93
Blank 88
LCS 98
MS 97
MSD 98

Limits: 10-164

Analysis Name: 25b Alcohols by 8015B
Batch number: 103330003A
Acetone

6149371 87
Blank 97
LCS 94
MS 102
MSD 107

Limits: 54-147

Analysis Name: 26b Terphenyls by 8015B
Batch number: 103330008A
n-Triacontane-d62

6149371 278*
Blank 279*
LCS 69
LCSD 58

Limits: 50-150

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103330011A
Chlorobenzene Orthoterphenyl

6149362	81	87
6149363	77	83
6149364	79	86
6149365	80	85
Blank	78	84
LCS	82	88
MS	81	86
MSD	79	86

Limits: 37-125 47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103330028A

*- 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: 01/04/11 at 04:55 PM

Group Number: 1222698

Surrogate Quality Control

n-Triacontane-d62

6149362	95
6149363	93
6149364	98
6149365	105
Blank	106
LCS	103
MS	96
MSD	96

Limits: 50-150

Analysis Name: 27a Glycols by 8015B
Batch number: 103340009A
Tetramethylene glycol

6149362	91
6149363	68
6149364	69
6149365	44*
Blank	88
LCS	97
MS	104
MSD	88

Limits: 50-119

Analysis Name: 9b TPH by EPA 8015B Oil/Diesel
Batch number: 103430003A
Chlorobenzene Orthoterphenyl

6149371	62	86
Blank	39	72
LCS	50	83
LCSD	48	84

Limits: 28-152 52-131

*- 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 1222698 6149361-72

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-EFH EPA 8015B Mod.	TPH-GRO EPA 8015B	*Metals EPA 6010/60208&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1631B	*Pesticides EPA 314.0	Pesticides Confirmation by EPA 6850	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1635C	**Enigmetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols/Glycols EPA 8015B	**Terphenyls 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>Pamela Hutton Sully Samantoni</i>																											
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																						
DUP09-SASC-QC-112310	11.23.10	0941	soil	none	2 - 16 oz. jars		X			X	X	X	X	X	X												
SL-060-SASC-SB-4.0-5.0	11.23.10	1405	soil	none	2 - 16 oz. jars		X			X	X	X	X	X	X												
SL-060-SASC-SB-4.0-5.0	11.23.10	1405	soil	none	1 - 16 oz. jar												X	X		X	X	X	X		X		
SL-060-SASC-SB-4.0-5.0	11.23.10	1405	soil	none	3 - 4 oz. jars			X																X			
SL-060-SASC-SB-4.0-5.0	11.23.10	1405	soil	none	1 - 4 oz. amber jar													X									
SL-060-SASC-SB-9.0-10.0	11.23.10	1410	soil	none	2 - 16 oz. jars		X			X	X	X	X	X	X												
SL-060-SASC-SB-9.0-10.0	11.23.10	1410	soil	none	1 - 16 oz. jar												X	X		X	X	X	X		X		
SL-060-SASC-SB-9.0-10.0	11.23.10	1410	soil	none	3 - 4 oz. jars			X																X			
SL-060-SASC-SB-9.0-10.0	11.23.10	1410	soil	none	1 - 4 oz. amber jar													X									
SL-062-SASC-SB-2.5-3.5	11.23.10	1042	soil	none	2 - 16 oz. jars		X			X	X	X	X	X	X												
SL-076-SASC-SB-3.0-4.0	11.23.10	1515	soil	none	2 - 16 oz. jars		X			X	X	X	X	X	X												
SL-076-SASC-SB-3.0-4.0	11.23.10	1515	soil	none	1 - 16 oz. jar												X	X		X	X	X	X		X		
SL-076-SASC-SB-3.0-4.0	11.23.10	1515	soil	none	3 - 4 oz. jars			X																X			
SL-076-SASC-SB-3.0-4.0	11.23.10	1515	soil	none	1 - 4 oz. amber jar													X									
<i>Sully Samantoni</i> <i>11/23/10</i>																											
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Laboratory:																			
<i>Sully Samantoni</i>		11.23.10 1630		<i>MZ</i>		11/24/10 9:50		Lancaster Laboratories, Inc.																			
Received By: (Signature)		Date/Time		Airlock No.		Tracking Number		Cooler 1																			
				00732992		869514314694																					

13013 1222698 6149361-72

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						CHAIN OF CUSTODY RECORD																Other Instructions and Notes								
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP						VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH-GRO EPA 8015B	TPH-EFH EPA 8015B Mod.	*Metals EPA 6010/60200&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A		**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols EPA 8015B	**Glycols EPA 8015B	**Terphenyls EPA 8015B
Samplers: (Signature) <i>Rene La Horta Shelley Samaitoni</i>																														
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																									
EB10-SA5C-112310	11.23.10	1215	water	HCl	2 - 1 liter amber					X																				X
EB10-SA5C-112310	11.23.10	1215	water	none	3 - 1 liter amber																		X	X						plus 1 extra amber bottle
EB10-SA5C-112310	11.23.10	1215	water	none	1-250 ml glass jar																X									
SL-077-SA5C-SB-3.0-4.0	11.23.10	1130	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X	X													
SL-077-SA5C-SB-3.0-4.0	11.23.10	1130	soil	none	1 - 16 oz. jar														X	X		X	X	X	X			X		
SL-077-SA5C-SB-3.0-4.0	11.23.10	1130	soil	none	3 - 4 oz. jars				X																		X	X		
SL-077-SA5C-SB-3.0-4.0	11.23.10	1130	soil	none	1 - 4 oz. amber jar																X									
<i>Shelley Samaitoni</i> 11/23/10																														
Relinquished by: (Signature) <i>Shelley Samaitoni</i>						Date/Time 11.23.10 1630		Received for Laboratory by: (Signature) <i>Harry H</i>						Date/Time 11/24/10 950												Laboratory: Lancaster Laboratories, Inc.				
Received by: (Signature) <i>FedEx</i>						Date/Time		Airbill No. 00732992																Cooler 3						
								Tracking Number 869514314683																						

13013

1222698

6149361-72

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING						CHAIN OF CUSTODY RECORD																Other Instructions and Notes									
NOTES: *Primary Analyses as Indicated on sample labels **Secondary Analyses as Indicated on sample labels @ For hex chrome analysis, lab will measure pH and ORP						VOCs/EPA 8260B	1,4-Dioxane EPA 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)	**Nitrate EPA 300.0	**Formaldehyde EPA 8315A		**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols EPA 8015B	**Glycols EPA 8015B	**Terphenyls EPA 8015B	
Samplers: (Signature) <i> Pamela Hathorn-Sullivan Samantoni</i>																															
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																										
EB10-SASC-112310	11.23.10	1215	water	acetate buffer	1-40 ml amber vial																										
EB10-SASC-112310	11.23.10	1215	water	none	2 - 40 ml clear glass																										
EB10-SASC-112310	11.23.10	1215	water	none	2 - 40 ml clear glass																										
EB10-SASC-111610	11.23.10	1215	water	HCl	3 - 40 ml VOA vials	X	X																								
EB10-SASC-112310	11.23.10	1215	water	HCl	3-40 ml vials				X																						
EB10-SASC-112310	11.23.10	1215	water	HCl	2-40 ml vials																						X				
TB-112310	11.23.10	1500	water	HCl	4-40 ml vials	X	X		X																						
SL-077-SASC-SB-3.5	11.23.10	1125	soil	none	4 encore samplers	X	X		X																						
SL-065-SASC-SB-3.0MS	11.23.10	0930	soil	none	12 encore samplers	X	X																								
SL-062-SASC-SB-3.0	11.23.10	1038	soil	none	4 encore samplers	X	X																								
SL-065-SASC-SB-2.5-3.5MS	11.23.10	0936	soil	none	6 - 16 oz. jars			X			X	X	X	X	X	X															
SL-076-SASC-SB-3.5	11.23.10	1511	soil	none	5 encore samplers	X	X		X																						
SL-060-SASC-SB-4.5	11.23.10	1400	soil	none	5 encore samplers	X	X		X																						
<i>Sullivan Samantoni</i> 11/23/10																															
Relinquished by: (Signature) <i>Sullivan Samantoni</i>		Date/Time 11.23.10 1630		Received for Laboratory by: (Signature) <i>K.M.</i>		Date/Time 11/24/10 0900																Laboratory: Lancaster Laboratories, Inc.									
Received by: (Signature) <i>FedEx</i>		Date/Time		Airbill No. 00732992		Tracking Number 869514314709																Cooler 4									

EB10-

13013

1222698

6149361-72

CHAIN OF CUSTODY RECORD

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) <i>Panelan</i> <i>Shelly Samantoni</i>																															
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	VOCs/EPA 8260B	1,4-Dioxane EPA 8260SIM	SVOCs EPA 8270C & PAHs 8270 SIM	TPH B/mo/d EPA 8015B	*Metals EPA 6010/60208&7471A	*Hex Chrome EPA 7199*	*Fluoride EPA 300.0	*PCBs EPA 8082	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohol/Terphenyls/Glycol EPA 8015B					
EB10-SA5C-112310	11.23.10	1215	water	none	6 - 1 Liter amber glass			X				X	X														plus 2 extra amber bottles				
EB10-SA5C-112310	11.23.10	1215	water	none	1 - 500 mL poly bottle					X	X				X																
EB10-SA5C-112310	11.23.10	1215	water	HNO ₃	1 - 500 mL poly bottle				X																						
EB10-SA5C-112310	11.23.10	1215	water	NaOH	1-500 ml poly																			X							
EB10-SA5C-112310	11.23.10	1215	water	none	1-500 ml poly																				X						
<i>Shelly Samantoni</i> 11/23/10																															
Relinquished by: (Signature) <i>Shelly Samantoni</i>		Date/Time 11.23.10 1630		Received for Laboratory by: (Signature) <i>B.M. 10</i>		Date/Time 11/24/10 950												Laboratory: Lancaster Laboratories, Inc.													
Received by: (Signature) <i>FedEx</i>		Date/Time		Airbill No. 00732992												Cooler 2															

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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.



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

Analysis Report

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

January 04, 2011

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/26/2010
Group Number: 1222908
SDG: DE023
PO Number: 1203-004-007-AL
Release Number: Tracking #11667
State of Sample Origin: CA

Client Sample Description

SL-063-SA5C-SB-4.0-5.0 Soil
SL-064-SA5C-SB-4.0-5.0 Soil
SL-061-SA5C-SB-4.0-5.0 Soil
SL-061-SA5C-SB-9.0-10.0 Soil
TB-112410 Water

Lancaster Labs (LLI)

6150585
6150586
6150587
6150588
6150589

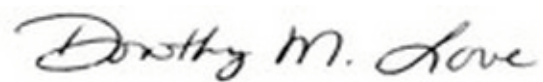
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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

Attn: Todd Burgess

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

Respectfully Submitted,



Dorothy M. Love
Group Leader

Sample Description: SL-063-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5C-SB-4.0-5.0

LLI Sample # SW 6150585
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 09:18 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL063 SDG#: DE023-01

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	6.3 U	6.3	7.5		0.84
06192	Benzene	71-43-2	0.09 U	0.09	3.8		0.84
06192	Bromobenzene	108-86-1	0.12 U	0.12	3.8		0.84
06192	Bromochloromethane	74-97-5	0.31 U	0.31	3.8		0.84
06192	Bromodichloromethane	75-27-4	0.07 U	0.07	3.8		0.84
06192	Bromoform	75-25-2	0.38 U	0.38	3.8		0.84
06192	Bromomethane	74-83-9	0.24 U	0.24	3.8		0.84
06192	2-Butanone	78-93-3	1.2 U	1.2	7.5		0.84
06192	n-Butylbenzene	104-51-8	0.11 U	0.11	3.8		0.84
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.8		0.84
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.8		0.84
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.8		0.84
06192	Chlorobenzene	108-90-7	0.10 U	0.10	3.8		0.84
06192	Chloroethane	75-00-3	0.12 U	0.12	3.8		0.84
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.28 U	0.28	3.8		0.84
06192	Chloroform	67-66-3	0.11 U	0.11	3.8		0.84
06192	Chloromethane	74-87-3	0.31 U	0.31	3.8		0.84
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.8		0.84
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.8		0.84
06192	Chlorotrifluoroethene	79-38-9	0.47 U	0.47	4.7		0.84
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.66 U	0.66	3.8		0.84
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.8		0.84
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.8		0.84
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.8		0.84
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.8		0.84
06192	1,3-Dichlorobenzene	541-73-1	0.11 U	0.11	3.8		0.84
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.8		0.84
06192	Dichlorodifluoromethane	75-71-8	0.11 U	0.11	3.8		0.84
06192	1,1-Dichloroethane	75-34-3	0.09 U	0.09	3.8		0.84
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.8		0.84
06192	1,1-Dichloroethene	75-35-4	0.37 U	0.37	3.8		0.84
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.8		0.84
06192	trans-1,2-Dichloroethene	156-60-5	0.11 U	0.11	3.8		0.84
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.8		0.84
06192	1,3-Dichloropropane	142-28-9	0.07 U	0.07	3.8		0.84
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.8		0.84
06192	1,1-Dichloropropene	563-58-6	0.12 U	0.12	3.8		0.84
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.8		0.84
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.8		0.84
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.8		0.84
06192	Freon 113	76-13-1	0.10 U	0.10	3.8		0.84
06192	Freon 133a	75-88-7	0.47 U	0.47	4.7		0.84
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.8		0.84
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.5		0.84
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.8		0.84
06192	p-Isopropyltoluene	99-87-6	0.10 U	0.10	3.8		0.84
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20 U	0.20	3.8		0.84
06192	4-Methyl-2-pentanone	108-10-1	0.37 U	0.37	7.5		0.84
06192	Methylene Chloride	75-09-2	0.89 J	0.23	3.8		0.84
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.8		0.84

*=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-063-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5C-SB-4.0-5.0

LLI Sample # SW 6150585
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 09:18 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL063 SDG#: DE023-01

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	3.8		0.84
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.10 U	0.10	3.8		0.84
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22	3.8		0.84
06192	Tetrachloroethene	127-18-4	0.19 U	0.19	3.8		0.84
06192	Toluene	108-88-3	0.07 U	0.07	3.8		0.84
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13	3.8		0.84
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17	3.8		0.84
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	3.8		0.84
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.8		0.84
06192	Trichloroethene	79-01-6	0.14 U	0.14	3.8		0.84
06192	Trichlorofluoromethane	75-69-4	0.27 U	0.27	3.8		0.84
06192	1,2,3-Trichloropropane	96-18-4	0.31 U	0.31	3.8		0.84
06192	1,2,4-Trimethylbenzene	95-63-6	0.38 U	0.38	3.8		0.84
06192	1,3,5-Trimethylbenzene	108-67-8	0.09 U	0.09	3.8		0.84
06192	Vinyl Chloride	75-01-4	0.19 U	0.19	3.8		0.84
06192	m+p-Xylene	179601-23-1	0.16 U	0.16	3.8		0.84
06192	o-Xylene	95-47-6	0.16 U	0.16	3.8		0.84
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	4.7 U	4.7	14		20.9
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

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Sample Description: SL-063-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5C-SB-4.0-5.0

LLI Sample # SW 6150585
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 09:18 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL063 SDG#: DE023-01

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	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	0.75 U	0.75	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.75 U	0.75	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.75 U	0.75	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.75 U	0.75	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.75 U	0.75	1.9		1
10138	Butylbenzylphthalate	85-68-7	6.7 U	6.7	20		1
10138	Di-n-butylphthalate	84-74-2	6.7 U	6.7	20		1
10138	Chrysene	218-01-9	0.37 U	0.37	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.75 U	0.75	1.9		1
10138	Diethylphthalate	84-66-2	6.7 U	6.7	20		1
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	0.75 U	0.75	1.9		1
10138	Fluorene	86-73-7	0.75 U	0.75	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.75 U	0.75	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.75 U	0.75	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.75 U	0.75	1.9		1
10138	Naphthalene	91-20-3	0.75 U	0.75	1.9		1

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Sample Description: SL-063-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5C-SB-4.0-5.0

LLI Sample # SW 6150585
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 09:18 by PH

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL063 SDG#: DE023-01

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	N-Nitrosodimethylamine	62-75-9	0.75 U	0.75	1.9		1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20		1
10138	Phenanthrene	85-01-8	0.75 U	0.75	1.9		1
10138	Pyrene	129-00-0	0.75 U	0.75	1.9		1
Pesticides/PCBs SW-846 8082							
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7		1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7		1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7		1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9		1
10225	PCB-1221	11104-28-2	0.56 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							
01643	Aluminum	7429-90-5	24,300	5.63	22.4		1
07914	Boron	7440-42-8	3.08 J	0.996	5.59		1
01650	Calcium	7440-70-2	3,570	6.86	22.4		1
01654	Iron	7439-89-6	27,200	5.27	22.4		1
01656	Lithium	7439-93-2	24.2	0.25	2.2		1
01657	Magnesium	7439-95-4	5,120	2.84	11.2		1
06958	Manganese	7439-96-5	144	0.0872	0.559		1
10145	Phosphorus	7723-14-0	150	0.626	11.2		1
01662	Potassium	7440-09-7	1,710	20.1	55.9		1
01667	Sodium	7440-23-5	1,130	41.7	112		1
07968	Strontium	7440-24-6	29.0	0.0694	0.559		1
06969	Tin	7440-31-5	2.68 J	1.12	11.2		1
06970	Titanium	7440-32-6	1,340	2.13	5.59		5
10146	Zirconium	7440-67-7	4.16 J	0.940	5.59		1
SW-846 6020							
06124	Antimony	7440-36-0	0.107 J	0.0671	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	6.94	0.0671	0.447		2
06126	Barium	7440-39-3	111	0.121	0.447		2
06127	Beryllium	7440-41-7	0.884	0.0179	0.112		2
06128	Cadmium	7440-43-9	0.0444 J	0.0403	0.112		2
06131	Chromium	7440-47-3	25.8	0.134	0.447		2
06132	Cobalt	7440-48-4	4.55	0.0224	0.112		2
06133	Copper	7440-50-8	10.4	0.0738	0.447		2

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Sample Description: SL-063-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5C-SB-4.0-5.0

LLI Sample # SW 6150585
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL063 SDG#: DE023-01

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	
06135	Lead	7439-92-1	7.92	0.0116	0.224		2
06138	Molybdenum	7439-98-7	0.427	0.0559	0.112		2
06139	Nickel	7440-02-0	12.6	0.112	0.447		2
06141	Selenium	7782-49-2	0.0648 J	0.0447	0.447		2
06142	Silver	7440-22-4	0.0230 J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.304	0.0336	0.112		2
06148	Vanadium	7440-62-2	50.9	0.0246	0.112		2
06149	Zinc	7440-66-6	52.6	0.626	3.36		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0048 J	0.0031	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	24.8	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	10.1 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	1.1	0.22	1.1		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	435	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.	7.66	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids 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-063-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.

Sample Description: SL-063-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5C-SB-4.0-5.0

LLI Sample # SW 6150585
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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SL063 SDG#: DE023-01

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	B103341AA	11/30/2010 16:03	Chelsea B Eastep	0.84
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103312AA	11/27/2010 20:04	Sara E Johnson	20.9
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033023107	11/26/2010 11:40	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033023107	11/26/2010 11:49	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033023107	11/26/2010 11:50	Stephanie A Sanchez	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033023107	11/26/2010 11:40	Stephanie A Sanchez	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10333SLA026	12/04/2010 08:42	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010 13:01	Joseph M Gambler	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010 10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10333SLA026	11/29/2010 11:45	Olivia I Santiago	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103340014A	12/06/2010 13:08	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103340014A	12/01/2010 09:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103345708001	12/07/2010 16:40	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103345708001	12/03/2010 20:28	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103341026001A	12/02/2010 14:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103341026001A	12/02/2010 14:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103341026001D	12/02/2010 14:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103341026001A	12/02/2010 14:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103341026001A	12/02/2010 14:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103341026001A	12/02/2010 14:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103341026001A	12/02/2010 14:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103341026001A	12/02/2010 14:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103371026002A	12/08/2010 12:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103341026001C	12/02/2010 14:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103341026001A	12/02/2010 14:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103341026001B	12/02/2010 14:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103341026001A	12/02/2010 14:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103341026001A	12/02/2010 14:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103371026002A	12/08/2010 12:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103341026001A	12/02/2010 14:09	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-063-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-063-SA5C-SB-4.0-5.0

LLI Sample # SW 6150585
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 09:18 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL063 SDG#: DE023-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00159	Mercury	SW-846 7471A	1	103345711001	11/30/2010 19:17	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103345708001	11/30/2010 11:39	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103341026001	11/30/2010 11:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103371026002	12/05/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103345711001	11/30/2010 12:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201B	12/08/2010 18:55	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201B	12/07/2010 15:52	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 19:59	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201B	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201B	12/06/2010 14:10	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10333182101B	11/29/2010 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10333039405A	11/29/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	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-064-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5C-SB-4.0-5.0

LLI Sample # SW 6150586
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 10:39 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL064 SDG#: DE023-02

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	6.6 U	6.6	7.9		0.86
06192	Benzene	71-43-2	0.1 U	0.1	4.0		0.86
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.0		0.86
06192	Bromochloromethane	74-97-5	0.33 U	0.33	4.0		0.86
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.0		0.86
06192	Bromoform	75-25-2	0.40 U	0.40	4.0		0.86
06192	Bromomethane	74-83-9	0.25 U	0.25	4.0		0.86
06192	2-Butanone	78-93-3	1.2 U	1.2	7.9		0.86
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.0		0.86
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.0		0.86
06192	tert-Butylbenzene	98-06-6	0.16 U	0.16	4.0		0.86
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.0		0.86
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.0		0.86
06192	Chloroethane	75-00-3	0.13 U	0.13	4.0		0.86
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.30 U	0.30	4.0		0.86
06192	Chloroform	67-66-3	0.12 U	0.12	4.0		0.86
06192	Chloromethane	74-87-3	0.33 U	0.33	4.0		0.86
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.0		0.86
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.0		0.86
06192	Chlorotrifluoroethene	79-38-9	0.50 U	0.50	5.0		0.86
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.69 U	0.69	4.0		0.86
06192	Dibromochloromethane	124-48-1	0.20 U	0.20	4.0		0.86
06192	1,2-Dibromoethane	106-93-4	0.17 U	0.17	4.0		0.86
06192	Dibromomethane	74-95-3	0.24 U	0.24	4.0		0.86
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.0		0.86
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.0		0.86
06192	1,4-Dichlorobenzene	106-46-7	0.16 U	0.16	4.0		0.86
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.0		0.86
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	4.0		0.86
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.0		0.86
06192	1,1-Dichloroethene	75-35-4	0.39 U	0.39	4.0		0.86
06192	cis-1,2-Dichloroethene	156-59-2	0.19 U	0.19	4.0		0.86
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.0		0.86
06192	1,2-Dichloropropane	78-87-5	0.17 U	0.17	4.0		0.86
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.0		0.86
06192	2,2-Dichloropropane	594-20-7	0.17 U	0.17	4.0		0.86
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.0		0.86
06192	cis-1,3-Dichloropropene	10061-01-5	0.16 U	0.16	4.0		0.86
06192	trans-1,3-Dichloropropene	10061-02-6	0.17 U	0.17	4.0		0.86
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.0		0.86
06192	Freon 113	76-13-1	0.11 U	0.11	4.0		0.86
06192	Freon 133a	75-88-7	0.50 U	0.50	5.0		0.86
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.0		0.86
06192	2-Hexanone	591-78-6	1.6 U	1.6	7.9		0.86
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.0		0.86
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.0		0.86
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.21 U	0.21	4.0		0.86
06192	4-Methyl-2-pentanone	108-10-1	0.39 U	0.39	7.9		0.86
06192	Methylene Chloride	75-09-2	0.79 J	0.24	4.0		0.86
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.0		0.86

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

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Sample Description: SL-064-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5C-SB-4.0-5.0

LLI Sample # SW 6150586
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 10:39 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL064 SDG#: DE023-02

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	0.1 U	0.1	4.0		0.86
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.0		0.86
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.23 U	0.23	4.0		0.86
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.0		0.86
06192	Toluene	108-88-3	0.1 J	0.08	4.0		0.86
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.0		0.86
06192	1,2,4-Trichlorobenzene	120-82-1	0.18 U	0.18	4.0		0.86
06192	1,1,1-Trichloroethane	71-55-6	0.20 U	0.20	4.0		0.86
06192	1,1,2-Trichloroethane	79-00-5	0.27 U	0.27	4.0		0.86
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.0		0.86
06192	Trichlorofluoromethane	75-69-4	0.29 U	0.29	4.0		0.86
06192	1,2,3-Trichloropropane	96-18-4	0.33 U	0.33	4.0		0.86
06192	1,2,4-Trimethylbenzene	95-63-6	0.40 U	0.40	4.0		0.86
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	4.0		0.86
06192	Vinyl Chloride	75-01-4	0.20 U	0.20	4.0		0.86
06192	m+p-Xylene	179601-23-1	0.17 U	0.17	4.0		0.86
06192	o-Xylene	95-47-6	0.17 U	0.17	4.0		0.86
GC/MS Volatiles SW-846 8260B SIM							
10326	1,4-Dioxane	123-91-1	5.6 U	5.6	17		24.22
GC/MS Semivolatiles EPA 1625C							
11622	N-Nitrosodimethylamine	62-75-9	172	19.2	38.4		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. The internal standard peak area of n-nitrosodimethylamine-d10 was above QC limits due to matrix interference. The matrix interference was not observed in the re-extraction of the sample. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 69 ng/kg. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C							
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

*=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-064-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5C-SB-4.0-5.0

LLI Sample # SW 6150586
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 10:39 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL064 SDG#: DE023-02

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	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
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

*=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-064-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5C-SB-4.0-5.0

LLI Sample # SW 6150586
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 10:39 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL064 SDG#: DE023-02

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	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
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
GC Volatiles	TPH GRO SW-846 8015B mod	mg/kg	mg/kg	mg/kg	mg/kg		
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.0		22.01
Explosives	SW-846 8330A	ug/kg	ug/kg	ug/kg	ug/kg		
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	87 U	87	170	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	58 U	58	170	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120 U	120	350	1000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120 U	120	350	1000000	1
10132	1,3-Dinitrobenzene	99-65-0	58 U	58	170	1000000	1
10132	2,4-Dinitrotoluene	121-14-2	58 U	58	170	1000000	1
10132	2,6-Dinitrotoluene	606-20-2	58 U	58	170	1000000	1
10132	HMX	2691-41-0	140 U	140	430	1000000	1
10132	Nitrobenzene	98-95-3	58 U	58	170	1000000	1
10132	Nitroglycerin	55-63-0	1,200 U	1,200	3,500	1000000	1
10132	2-Nitrotoluene	88-72-2	120 U	120	170	1000000	1
10132	3-Nitrotoluene	99-08-1	140 U	140	170	1000000	1
10132	4-Nitrotoluene	99-99-0	120 U	120	170	1000000	1

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

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Sample Description: SL-064-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5C-SB-4.0-5.0

LLI Sample # SW 6150586
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 10:39 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL064 SDG#: DE023-02

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	PETN	78-11-5	1,200	U 1,200	3,500	10000000	1
10132	RDX	121-82-4	72	U 72	170	10000000	1
10132	Tetryl	479-45-8	88	U 88	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	58	U 58	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	58	U 58	170	10000000	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	1.2	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		1
10199	EFH (C15-C20)	n.a.	0.46	U 0.46	1.4		1
10199	EFH (C21-C30)	n.a.	0.46	U 0.46	1.4		1
10199	EFH (C30 - C40)	n.a.	1.0	J 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	120	U 120	580		1
10501	Isopropanol	67-63-0	120	U 120	580		1
10501	Methanol	67-56-1	120	U 120	580		1
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		1
08283	Ethylene glycol	107-21-1	5.8	U 5.8	14		1
08283	Propylene glycol	57-55-6	5.8	U 5.8	14		1

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Sample Description: SL-064-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5C-SB-4.0-5.0

LLI Sample # SW 6150586
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 10:39 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL064 SDG#: DE023-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
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. The surrogate data is outside the QC limits. Results from the reanalysis are within the limits. The hold time had expired prior to the reanalysis therefore, all results are reported from the original extract. Similar results were obtained in both extracts.							
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
Misc. Organics		SW-846 8315A modified	ng/g	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.3 U	2.3	5.8		1
10346	Hydrazine	302-01-2	0.58 U	0.58	2.3		1
10346	Methylhydrazine	60-34-4	2.3 U	2.3	5.8		1
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	26,800	5.63	22.4		1
07914	Boron	7440-42-8	4.07 J	0.997	5.60		1
01650	Calcium	7440-70-2	3,950	6.86	22.4		1
01654	Iron	7439-89-6	26,800	5.27	22.4		1
01656	Lithium	7439-93-2	25.4	0.25	2.2		1
01657	Magnesium	7439-95-4	5,910	2.84	11.2		1
06958	Manganese	7439-96-5	128	0.0873	0.560		1
10145	Phosphorus	7723-14-0	76.7	0.627	11.2		1
01662	Potassium	7440-09-7	1,860	20.2	56.0		1
01667	Sodium	7440-23-5	1,160	41.8	112		1
07968	Strontium	7440-24-6	40.4	0.0694	0.560		1
06969	Tin	7440-31-5	2.25 J	1.12	11.2		1
06970	Titanium	7440-32-6	1,360	2.13	5.60		5
10146	Zirconium	7440-67-7	5.41 J	0.941	5.60		1
		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0713 J	0.0678	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	5.05	0.0678	0.452		2
06126	Barium	7440-39-3	101	0.122	0.452		2
06127	Beryllium	7440-41-7	0.772	0.0181	0.113		2
06128	Cadmium	7440-43-9	0.0541 J	0.0407	0.113		2
06131	Chromium	7440-47-3	27.1	0.136	0.452		2
06132	Cobalt	7440-48-4	8.17	0.0226	0.113		2
06133	Copper	7440-50-8	9.94	0.0746	0.452		2
06135	Lead	7439-92-1	11.3	0.0119	0.228		2

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Sample Description: SL-064-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5C-SB-4.0-5.0

LLI Sample # SW 6150586
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 10:39 by PH

CDM Federal Programs Corp.
14420 Albemarle Point Place
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Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL064 SDG#: DE023-02

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	
06138	Molybdenum	7439-98-7	0.163	0.0565	0.113		2
06139	Nickel	7440-02-0	15.7	0.113	0.452		2
06141	Selenium	7782-49-2	0.0534 J	0.0452	0.452		2
06142	Silver	7440-22-4	0.0801 J	0.0136	0.113		2
06145	Thallium	7440-28-0	0.297	0.0339	0.113		2
06148	Vanadium	7440-62-2	62.5	0.0251	0.114		2
06149	Zinc	7440-66-6	57.5	0.633	3.39		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	31.7	0.92	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.9	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	10.4 U	10.4	34.6		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	1.2		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.	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.	8.75	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	13.3	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
The volatile analysis was performed on soil from SL-064-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.

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Sample Description: SL-064-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5C-SB-4.0-5.0

LLI Sample # SW 6150586
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Project Name: SSFL Area IV Collocated Soil Sampling

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SL064 SDG#: DE023-02

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	B103341AA	11/30/2010 16:25	Chelsea B Eastep	0.86
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103312AA	11/27/2010 20:24	Sara E Johnson	24.22
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033023107	11/26/2010 11:54	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033023107	11/26/2010 11:50	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033023107	11/26/2010 11:50	Stephanie A Sanchez	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033023107	11/26/2010 11:54	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/22/2010 01:29	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10333SLA026	12/04/2010 09:59	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010 13:35	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010 10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10333SLA026	11/29/2010 11:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10332A34A	12/01/2010 04:06	Elizabeth J Marin	22.01
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033023107	11/26/2010 11:53	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 07:38	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103350004A	12/02/2010 18:38	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103340014A	12/06/2010 14:04	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103340014A	12/01/2010 09:45	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103350004A	12/01/2010 14:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103330011A	12/04/2010 06:49	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103330001A	11/29/2010 22:01	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103340009A	11/30/2010 20:52	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103330028A	12/02/2010 02:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103330011A	11/29/2010 16:35	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103330028A	11/30/2010 06:20	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103340009A	11/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103330001A	11/29/2010 14:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10334001	12/01/2010 04:19	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103345708001	12/03/2010 20:53	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103345708001	12/03/2010 20:53	John W Yanzuk II	1

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Sample Description: SL-064-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5C-SB-4.0-5.0

LLI Sample # SW 6150586
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 10:39 by PH

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Reported: 01/04/2011 13:09

SL064 SDG#: DE023-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	103345708001	12/08/2010 20:09	John P Hook	1
01654	Iron	SW-846 6010B	1	103345708001	12/03/2010 20:53	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103345708001	12/08/2010 20:09	John P Hook	1
01657	Magnesium	SW-846 6010B	1	103345708001	12/08/2010 20:09	John P Hook	1
06958	Manganese	SW-846 6010B	1	103345708001	12/03/2010 20:53	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103345708001	12/03/2010 20:53	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103345708001	12/08/2010 20:09	John P Hook	1
01667	Sodium	SW-846 6010B	1	103345708001	12/08/2010 20:09	John P Hook	1
07968	Strontium	SW-846 6010B	1	103345708001	12/03/2010 20:53	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103345708001	12/03/2010 20:53	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103345708001	12/07/2010 17:08	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103345708001	12/08/2010 20:09	John P Hook	1
06124	Antimony	SW-846 6020	1	103341026001A	12/02/2010 14:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103341026001A	12/02/2010 14:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103341026001D	12/02/2010 14:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103341026001A	12/02/2010 14:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103341026001A	12/02/2010 14:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103341026001A	12/02/2010 14:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103341026001A	12/02/2010 14:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103341026001A	12/02/2010 14:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103371026002A	12/08/2010 12:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103341026001C	12/09/2010 08:02	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103341026001A	12/02/2010 14:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103341026001B	12/02/2010 14:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103341026001A	12/02/2010 14:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103341026001A	12/02/2010 14:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103371026002A	12/08/2010 12:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103341026001A	12/02/2010 14:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103345711001	11/30/2010 19:22	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103345708001	11/30/2010 11:39	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103341026001	11/30/2010 11:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103371026002	12/05/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103345711001	11/30/2010 12:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201B	12/08/2010 19:09	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201B	12/08/2010 19:09	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201B	12/07/2010 17:28	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 20:12	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10340102201A	12/06/2010 19:24	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201B	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201B	12/06/2010 14:10	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10340102201A	12/06/2010 16:35	Carolyn M Mastropietro	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-064-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-064-SA5C-SB-4.0-5.0

LLI Sample # SW 6150586
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 10:39 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL064 SDG#: DE023-02

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	10333182101B	11/29/2010 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10333039405A	11/29/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	William C Schwebel	1

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

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Sample Description: SL-061-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-4.0-5.0

LLI Sample # SW 6150587
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:34 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL-61 SDG#: DE023-03

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	6.9 U	6.9	8.3		0.94
06192	Benzene	71-43-2	0.10 U	0.10	4.1		0.94
06192	Bromobenzene	108-86-1	0.13 U	0.13	4.1		0.94
06192	Bromochloromethane	74-97-5	0.34 U	0.34	4.1		0.94
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	4.1		0.94
06192	Bromoform	75-25-2	0.41 U	0.41	4.1		0.94
06192	Bromomethane	74-83-9	0.26 U	0.26	4.1		0.94
06192	2-Butanone	78-93-3	1.3 U	1.3	8.3		0.94
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	4.1		0.94
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.1		0.94
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.1		0.94
06192	Carbon Tetrachloride	56-23-5	0.14 U	0.14	4.1		0.94
06192	Chlorobenzene	108-90-7	0.11 U	0.11	4.1		0.94
06192	Chloroethane	75-00-3	0.13 U	0.13	4.1		0.94
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.31 U	0.31	4.1		0.94
06192	Chloroform	67-66-3	0.12 U	0.12	4.1		0.94
06192	Chloromethane	74-87-3	0.34 U	0.34	4.1		0.94
06192	2-Chlorotoluene	95-49-8	0.14 U	0.14	4.1		0.94
06192	4-Chlorotoluene	106-43-4	0.14 U	0.14	4.1		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	0.72 U	0.72	4.1		0.94
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.1		0.94
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.1		0.94
06192	Dibromomethane	74-95-3	0.25 U	0.25	4.1		0.94
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	4.1		0.94
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	4.1		0.94
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.1		0.94
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	4.1		0.94
06192	1,1-Dichloroethane	75-34-3	0.10 U	0.10	4.1		0.94
06192	1,2-Dichloroethane	107-06-2	0.15 U	0.15	4.1		0.94
06192	1,1-Dichloroethene	75-35-4	0.40 U	0.40	4.1		0.94
06192	cis-1,2-Dichloroethene	156-59-2	0.20 U	0.20	4.1		0.94
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	4.1		0.94
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.1		0.94
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	4.1		0.94
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.1		0.94
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	4.1		0.94
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.1		0.94
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.1		0.94
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.1		0.94
06192	Freon 113	76-13-1	0.11 U	0.11	4.1		0.94
06192	Freon 133a	75-88-7	0.52 U	0.52	5.2		0.94
06192	Hexachlorobutadiene	87-68-3	0.14 U	0.14	4.1		0.94
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.3		0.94
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.1		0.94
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	4.1		0.94
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.22 U	0.22	4.1		0.94
06192	4-Methyl-2-pentanone	108-10-1	0.40 U	0.40	8.3		0.94
06192	Methylene Chloride	75-09-2	1.5 J	0.25	4.1		0.94
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1		0.94

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Sample Description: SL-061-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-4.0-5.0

LLI Sample # SW 6150587
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:34 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL-61 SDG#: DE023-03

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	0.10 U	0.10	4.1		0.94
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	4.1		0.94
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.24 U	0.24	4.1		0.94
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.1		0.94
06192	Toluene	108-88-3	0.09 J	0.08	4.1		0.94
06192	1,2,3-Trichlorobenzene	87-61-6	0.14 U	0.14	4.1		0.94
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.1		0.94
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.1		0.94
06192	1,1,2-Trichloroethane	79-00-5	0.28 U	0.28	4.1		0.94
06192	Trichloroethene	79-01-6	0.15 U	0.15	4.1		0.94
06192	Trichlorofluoromethane	75-69-4	0.30 U	0.30	4.1		0.94
06192	1,2,3-Trichloropropane	96-18-4	0.34 U	0.34	4.1		0.94
06192	1,2,4-Trimethylbenzene	95-63-6	0.41 U	0.41	4.1		0.94
06192	1,3,5-Trimethylbenzene	108-67-8	0.10 U	0.10	4.1		0.94
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.1		0.94
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.1		0.94
06192	o-Xylene	95-47-6	0.18 U	0.18	4.1		0.94
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		22.81
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	206	18.4	36.8		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. The internal standard peak area of n-nitrosodimethylamine-d10 was above QC limits due to matrix interference. The interference caused the surrogate standard n-nitrosodimethylamine-d6 to recover outside of the advisory QC windows. The matrix interference was not observed in the re-extraction of the sample. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 28 ng/kg. The data reported here is from the initial extraction of the sample.							
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

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Sample Description: SL-061-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-4.0-5.0

LLI Sample # SW 6150587
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:34 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL-61 SDG#: DE023-03

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	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
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	0.74	U 0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.8		1

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Sample Description: SL-061-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-4.0-5.0

LLI Sample # SW 6150587
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:34 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL-61 SDG#: DE023-03

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	Benzo(k)fluoranthene	207-08-9	0.74 U	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	0.37 U	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	0.74 U	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	0.74 U	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
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	0.74 U	0.74	1.8		1
10138	Pyrene	129-00-0	0.74 U	0.74	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	n.a.	0.2 U	0.2	1.1		23.99
Explosives	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U 83	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U 55	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	55	U 55	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	55	U 55	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	55	U 55	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	410	1000000 0	1
10132	Nitrobenzene	98-95-3	55	U 55	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1

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Sample Description: SL-061-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-4.0-5.0

LLI Sample # SW 6150587
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:34 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL-61 SDG#: DE023-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Explosives							
10132	4-Nitrotoluene	99-99-0	110	U 110	170	10000000	1
10132	PETN	78-11-5	1,100	U 1,100	3,300	10000000	1
10132	RDX	121-82-4	69	U 69	170	10000000	1
10132	Tetryl	479-45-8	85	U 85	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U 55	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U 55	170	10000000	1
HPLC Organics							
04173	17a Formaldehyde by	50-00-0	660	U 660	1,700		1
Pesticides/PCBs							
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.							
GC Extractable TPH							
10199	EFH (C12-C14)	n.a.	0.44	U 0.44	1.3		1
10199	EFH (C15-C20)	n.a.	0.44	U 0.44	1.3		1
10199	EFH (C21-C30)	n.a.	0.64	J 0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	2.1	0.44	1.3		1
10199	EFH (C8-C11)	n.a.	0.44	U 0.44	1.3		1
GC Miscellaneous							
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	110	U 110	550		1
GC Miscellaneous							
08283	Diethylene glycol	111-46-6	5.5	U 5.5	14		1

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Sample Description: SL-061-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-4.0-5.0

LLI Sample # SW 6150587
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:34 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL-61 SDG#: DE023-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Miscellaneous		SW-846 8015B modified	mg/kg		mg/kg	mg/kg	mg/kg	
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
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	
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
Misc. Organics		SW-846 8315A modified	ng/g		ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.2	U	2.2	5.5		1
10346	Hydrazine	302-01-2	0.55	U	0.55	2.2		1
10346	Methylhydrazine	60-34-4	2.2	U	2.2	5.5		1
Metals		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	22,600		5.45	21.7		1
07914	Boron	7440-42-8	5.28	J	0.964	5.42		1
01650	Calcium	7440-70-2	3,060		6.64	21.7		1
01654	Iron	7439-89-6	23,200		5.10	21.7		1
01656	Lithium	7439-93-2	19.4		0.24	2.2		1
01657	Magnesium	7439-95-4	4,650		2.75	10.8		1
06958	Manganese	7439-96-5	294		0.0845	0.542		1
10145	Phosphorus	7723-14-0	182		0.607	10.8		1
01662	Potassium	7440-09-7	2,620		19.5	54.2		1
01667	Sodium	7440-23-5	474		40.4	108		1
07968	Strontium	7440-24-6	27.9		0.0672	0.542		1
06969	Tin	7440-31-5	2.09	J	1.08	10.8		1
06970	Titanium	7440-32-6	1,400		2.06	5.42		5
10146	Zirconium	7440-67-7	4.59	J	0.910	5.42		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0903	J	0.0663	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	5.46		0.0663	0.442		2
06126	Barium	7440-39-3	148		0.119	0.442		2
06127	Beryllium	7440-41-7	0.892		0.0177	0.110		2
06128	Cadmium	7440-43-9	0.178		0.0398	0.110		2
06131	Chromium	7440-47-3	27.6		0.133	0.442		2
06132	Cobalt	7440-48-4	9.15		0.0221	0.110		2
06133	Copper	7440-50-8	11.9		0.0729	0.442		2
06135	Lead	7439-92-1	8.84		0.0112	0.215		2

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Sample Description: SL-061-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-4.0-5.0

LLI Sample # SW 6150587
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:34 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL-61 SDG#: DE023-03

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	
06138	Molybdenum	7439-98-7	0.583	0.0552	0.110		2
06139	Nickel	7440-02-0	18.0	0.110	0.442		2
06141	Selenium	7782-49-2	0.121 J	0.0442	0.442		2
06142	Silver	7440-22-4	0.0446 J	0.0133	0.110		2
06145	Thallium	7440-28-0	0.392	0.0331	0.110		2
06148	Vanadium	7440-62-2	57.2	0.0236	0.107		2
06149	Zinc	7440-66-6	72.6	0.619	3.31		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0153 J	0.0031	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	19.6	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.3	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	33.1		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
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	486	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.	8.58	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	9.5	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-061-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.

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Sample Description: SL-061-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-4.0-5.0

LLI Sample # SW 6150587
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:34 by PH

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Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL-61 SDG#: DE023-03

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	B103341AA	11/30/2010 16:47	Chelsea B Eastep	0.94
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103312AA	11/27/2010 20:44	Sara E Johnson	22.81
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033023107	11/26/2010 11:55	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033023107	11/26/2010 11:50	Stephanie A Sanchez	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033023107	11/26/2010 11:50	Stephanie A Sanchez	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033023107	11/26/2010 11:54	Stephanie A Sanchez	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/22/2010 01:46	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10333SLA026	12/04/2010 10:25	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010 14:09	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010 13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010 10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10333SLA026	11/29/2010 11:45	Olivia I Santiago	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10332A34A	12/01/2010 14:20	Elizabeth J Marin	23.99
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033023107	11/26/2010 11:53	Stephanie A Sanchez	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 08:20	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103350004A	12/02/2010 19:06	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103340014A	12/06/2010 14:23	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103340014A	12/01/2010 09:45	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103350004A	12/01/2010 14:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103330011A	12/04/2010 07:13	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103330001A	11/29/2010 22:31	Dustin A Underkoffler	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103340009A	11/30/2010 21:08	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103330028A	12/02/2010 02:47	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103330011A	11/29/2010 16:35	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103330028A	11/30/2010 06:20	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103340009A	11/30/2010 13:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103330001A	11/29/2010 14:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10334001	12/01/2010 04:40	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1

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Sample Description: SL-061-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-4.0-5.0

LLI Sample # SW 6150587
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:34 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL-61 SDG#: DE023-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01650	Calcium	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103345708001	12/07/2010 17:12	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103345708001	12/03/2010 21:04	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103341026001A	12/02/2010 14:22	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103341026001A	12/02/2010 14:22	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103341026001D	12/02/2010 14:22	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103341026001A	12/02/2010 14:22	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103341026001A	12/02/2010 14:22	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103341026001A	12/02/2010 14:22	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103341026001A	12/02/2010 14:22	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103341026001A	12/02/2010 14:22	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103371026002A	12/08/2010 12:54	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103341026001C	12/02/2010 14:22	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103341026001A	12/02/2010 14:22	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103341026001B	12/02/2010 14:22	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103341026001A	12/02/2010 14:22	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103341026001A	12/02/2010 14:22	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103371026002A	12/08/2010 12:54	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103341026001A	12/02/2010 14:22	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103345711001	11/30/2010 19:23	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103345708001	11/30/2010 11:39	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103341026001	11/30/2010 11:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103371026002	12/05/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103345711001	11/30/2010 12:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201B	12/08/2010 19:23	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201B	12/08/2010 19:23	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201B	12/17/2010 17:31	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 20:25	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10340102201A	12/06/2010 19:26	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201B	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201B	12/06/2010 14:10	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10340102201A	12/06/2010 16:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10333182101B	11/29/2010 13:15	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-061-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-4.0-5.0

LLI Sample # SW 6150587
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:34 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL-61 SDG#: DE023-03

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	10333039405A	11/29/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	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-061-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-9.0-10.0

LLI Sample # SW 6150588
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:39 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL619 SDG#: DE023-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles EPA 1625C			ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	121	17.2	34.3		1
N-Nitrosodimethylamine was detected in the method blank at a concentration of 32.8 ng/kg. The blank value was not subtracted from the analytical result. This sample was re-extracted outside of the method required holding time, and n-nitrosodimethylamine was not detected in the method blank associated with the re-extraction. N-Nitrosodimethylamine was detected in the re-analysis of the sample at a concentration of 44 ng/kg. The data reported here is from the initial extraction of the sample.							
GC/MS Semivolatiles SW-846 8270C			ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	170	U 170	510		1
04688	Benzidine	92-87-5	1,200	U 1,200	3,400		1
04688	Benzoic acid	65-85-0	170	U 170	510		1
04688	Benzyl alcohol	100-51-6	170	U 170	510		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	34	U 34	170		1
04688	4-Chloroaniline	106-47-8	69	U 69	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	34	U 34	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	340		1
04688	2,4-Dichlorophenol	120-83-2	17	U 17	170		1
04688	2,4-Dimethylphenol	105-67-9	34	U 34	170		1
04688	3,5-Dimethylphenol	108-68-9	34	U 34	170		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	170	U 170	510		1
04688	2,4-Dinitrophenol	51-28-5	690	U 690	2,100		1
04688	2,4-Dinitrotoluene	121-14-2	34	U 34	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	69	U 69	170		1
04688	Hexachlorocyclopentadiene	77-47-4	170	U 170	510		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	34	U 34	170		1
04688	4-Methylphenol	106-44-5	34	U 34	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	34	U 34	170		1
04688	4-Nitroaniline	100-01-6	69	U 69	170		1

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Sample Description: SL-061-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-9.0-10.0

LLI Sample # SW 6150588
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:39 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL619 SDG#: DE023-04

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	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	510		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	510		1
04688	Phenol	108-95-2	17	U 17	170		1
04688	1,2,4-Trichlorobenzene	120-82-1	17	U 17	170		1
04688	2,4,5-Trichlorophenol	95-95-4	34	U 34	170		1
04688	2,4,6-Trichlorophenol	88-06-2	34	U 34	170		1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.69	U 0.69	1.7		1
10138	Acenaphthylene	208-96-8	0.34	U 0.34	1.7		1
10138	Anthracene	120-12-7	0.34	U 0.34	1.7		1
10138	Benzo(a)anthracene	56-55-3	0.69	U 0.69	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.69	U 0.69	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	0.69	U 0.69	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.69	U 0.69	1.7		1
10138	Benzo(k)fluoranthene	207-08-9	0.69	U 0.69	1.7		1
10138	Butylbenzylphthalate	85-68-7	6.2	U 6.2	19		1
10138	Di-n-butylphthalate	84-74-2	6.2	U 6.2	19		1
10138	Chrysene	218-01-9	0.35	J 0.34	1.7		1
10138	Dibenz(a,h)anthracene	53-70-3	0.69	U 0.69	1.7		1
10138	Diethylphthalate	84-66-2	8.0	J 6.2	19		1
10138	Dimethylphthalate	131-11-3	6.2	U 6.2	19		1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	36	6.2	19		1
10138	Fluoranthene	206-44-0	0.69	U 0.69	1.7		1
10138	Fluorene	86-73-7	0.69	U 0.69	1.7		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.69	U 0.69	1.7		1
10138	1-Methylnaphthalene	90-12-0	0.69	U 0.69	1.7		1
10138	2-Methylnaphthalene	91-57-6	0.69	U 0.69	1.7		1
10138	Naphthalene	91-20-3	0.69	U 0.69	1.7		1
10138	N-Nitrosodimethylamine	62-75-9	1.9	0.69	1.7		1
10138	Di-n-octylphthalate	117-84-0	6.2	U 6.2	19		1
10138	Phenanthrene	85-01-8	0.69	U 0.69	1.7		1
10138	Pyrene	129-00-0	0.69	U 0.69	1.7		1
Explosives	SW-846 8330A		ug/kg	ug/kg	ug/kg	ug/kg	
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	77	U 77	150	1000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	51	U 51	150	1000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	100	U 100	310	1000000	1

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Sample Description: SL-061-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-9.0-10.0

LLI Sample # SW 6150588
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:39 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL619 SDG#: DE023-04

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-Diamino-6-nitrotoluene	6629-29-4	100	U 100	310	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	51	U 51	150	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	51	U 51	150	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	51	U 51	150	1000000 0	1
10132	HMX	2691-41-0	130	U 130	390	1000000 0	1
10132	Nitrobenzene	98-95-3	51	U 51	150	1000000 0	1
10132	Nitroglycerin	55-63-0	1,000	U 1,000	3,100	1000000 0	1
10132	2-Nitrotoluene	88-72-2	100	U 100	150	1000000 0	1
10132	3-Nitrotoluene	99-08-1	130	U 130	150	1000000 0	1
10132	4-Nitrotoluene	99-99-0	100	U 100	150	1000000 0	1
10132	PETN	78-11-5	1,000	U 1,000	3,100	1000000 0	1
10132	RDX	121-82-4	64	U 64	150	1000000 0	1
10132	Tetryl	479-45-8	79	U 79	150	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	51	U 51	150	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	51	U 51	150	1000000 0	1
HPLC Organics		SW-846 8315A	ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	620	U 620	1,500		1
Pesticides/PCBs		SW-846 8082	ug/kg	ug/kg	ug/kg	ug/kg	
10225	Aroclor 5432	63496-31-1	1.0	U 1.0	3.4		1
10225	Aroclor 5442	12642-23-8	1.0	U 1.0	3.4		1
10225	Aroclor 5460	11126-42-4	1.0	U 1.0	3.4		1
10225	PCB-1016	12674-11-2	0.34	U 0.34	1.8		1
10225	PCB-1221	11104-28-2	0.51	U 0.51	1.8		1
10225	PCB-1232	11141-16-5	0.54	U 0.54	1.8		1
10225	PCB-1242	53469-21-9	0.51	U 0.51	1.8		1
10225	PCB-1248	12672-29-6	0.34	U 0.34	1.8		1
10225	PCB-1254	11097-69-1	0.34	U 0.34	1.8		1
10225	PCB-1260	11096-82-5	0.34	U 0.34	1.8		1
10225	PCB-1262	37324-23-5	0.34	U 0.34	1.8		1
10225	PCB-1268	11100-14-4	0.34	U 0.34	1.8		1

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

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Sample Description: SL-061-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-9.0-10.0

LLI Sample # SW 6150588
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:39 by PH

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Chantilly VA 20151

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL619 SDG#: DE023-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC Extractable TPH		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.41 U	0.41	1.2		1
10199	EFH (C15-C20)	n.a.	0.41 U	0.41	1.2		1
10199	EFH (C21-C30)	n.a.	3.4	0.41	1.2		1
10199	EFH (C30 - C40)	n.a.	13	0.41	1.2		1
10199	EFH (C8-C11)	n.a.	0.41 U	0.41	1.2		1
GC Miscellaneous		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	100 U	100	510		1
10501	Isopropanol	67-63-0	100 U	100	510		1
10501	Methanol	67-56-1	100 U	100	510		1
GC Miscellaneous		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
08283	Diethylene glycol	111-46-6	5.1 U	5.1	13		1
08283	Ethylene glycol	107-21-1	5.1 U	5.1	13		1
08283	Propylene glycol	57-55-6	5.1 U	5.1	13		1
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	
10318	m-Terphenyl	92-06-8	1.5 U	1.5	3.6		1
10318	o-Terphenyl	84-15-1	1.5 U	1.5	3.6		1
10318	p-Terphenyl	92-94-4	1.5 U	1.5	3.6		1
Misc. Organics		SW-846 8315A modified	ng/g	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.1 U	2.1	5.1		1
10346	Hydrazine	302-01-2	0.51 U	0.51	2.1		1
10346	Methylhydrazine	60-34-4	2.1 U	2.1	5.1		1
Metals		SW-846 6010B	mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	11,900	4.98	19.8		1
07914	Boron	7440-42-8	3.45 J	0.881	4.95		1
01650	Calcium	7440-70-2	10,200	6.07	19.8		1
01654	Iron	7439-89-6	16,100	4.66	19.8		1
01656	Lithium	7439-93-2	13.2	0.22	2.0		1
01657	Magnesium	7439-95-4	3,850	2.52	9.90		1
06958	Manganese	7439-96-5	214	0.0772	0.495		1
10145	Phosphorus	7723-14-0	488	0.555	9.90		1
01662	Potassium	7440-09-7	2,400	17.8	49.5		1
01667	Sodium	7440-23-5	202	36.9	99.0		1
07968	Strontium	7440-24-6	35.3	0.0614	0.495		1
06969	Tin	7440-31-5	1.70 J	0.990	9.90		1
06970	Titanium	7440-32-6	1,040	1.88	4.95		5

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Sample Description: SL-061-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-9.0-10.0

LLI Sample # SW 6150588
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:39 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL619 SDG#: DE023-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals							
10146	Zirconium	7440-67-7	3.58 J	0.832	4.95	mg/kg	1
SW-846 6010B							
06124	Antimony	7440-36-0	0.116 J	0.0600	0.200	mg/kg	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	2.41	0.0600	0.400	mg/kg	2
06126	Barium	7440-39-3	102	0.108	0.400	mg/kg	2
06127	Beryllium	7440-41-7	0.353	0.0160	0.100	mg/kg	2
06128	Cadmium	7440-43-9	0.122	0.0360	0.100	mg/kg	2
06131	Chromium	7440-47-3	12.5	0.120	0.400	mg/kg	2
06132	Cobalt	7440-48-4	4.76	0.0200	0.100	mg/kg	2
06133	Copper	7440-50-8	10.3	0.0660	0.400	mg/kg	2
06135	Lead	7439-92-1	2.77	0.0106	0.204	mg/kg	2
06138	Molybdenum	7439-98-7	0.427	0.0500	0.100	mg/kg	2
06139	Nickel	7440-02-0	7.67	0.100	0.400	mg/kg	2
06141	Selenium	7782-49-2	0.0788 J	0.0400	0.400	mg/kg	2
06142	Silver	7440-22-4	0.0270 J	0.0120	0.100	mg/kg	2
06145	Thallium	7440-28-0	0.189	0.0300	0.100	mg/kg	2
06148	Vanadium	7440-62-2	32.9	0.0224	0.102	mg/kg	2
06149	Zinc	7440-66-6	47.3	0.560	3.00	mg/kg	2
SW-846 7471A							
00159	Mercury	7439-97-6	0.0029 U	0.0029	0.101	mg/kg	1
Wet Chemistry							
EPA 300.0							
07332	11a Anions by 300.0 - Fluoride	16984-48-8	0.90 J	0.82	1.0	mg/kg	1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	0.82 U	0.82	1.5	mg/kg	1
EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	9.3 U	9.3	30.9	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.21 U	0.21	1.0	mg/kg	1
SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.18 U	0.18	0.50	mg/kg	1
ASTM D1498							
01821	Oxidation Reduction Potential	n.a.	464	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							
Std. Units Std. Units Std. Units Std. Units							

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Sample Description: SL-061-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-9.0-10.0

LLI Sample # SW 6150588
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:39 by PH

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Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL619 SDG#: DE023-04

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.	8.40	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	2.9	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
11622	19a NDMA by 1625C	EPA 1625C	1	10333SLD026	12/22/2010	02:04	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10333SLA026	12/04/2010	10:51	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10333SLH026	12/08/2010	15:50	Joseph M Gambler	1
11630	NDMA Soil Microwave	SW-846 3546	1	10333SLD026	11/29/2010	13:45	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10333SLH026	11/30/2010	10:00	Kerrie A Freeburn	1
00381	BNA Soil Sonication	SW-846 3550B	1	10333SLA026	11/29/2010	11:45	Olivia I Santiago	1
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010	09:03	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103350004A	12/02/2010	19:16	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103410008A	12/08/2010	15:05	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	2	103410008A	12/07/2010	16:00	JoElla L Rice	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103350004A	12/01/2010	14:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010	12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103330011A	12/04/2010	07:38	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103340018A	12/01/2010	10:56	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103340009A	11/30/2010	21:24	Tracy A Cole	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103330028A	12/02/2010	03:30	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103330011A	11/29/2010	16:35	JoElla L Rice	1
10303	Terphenyls soil prep	SW-846 3550B	1	103330028A	11/30/2010	06:20	Olivia Arosemena	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	2	103340009A	11/30/2010	13:00	Dustin A Underkoffler	1

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Sample Description: SL-061-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-9.0-10.0

LLI Sample # SW 6150588
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:39 by PH

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Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL619 SDG#: DE023-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00380	Direct Injection Solids Ext	SW-846 8015B	2	103340018A	12/01/2010 10:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10334001	11/30/2010 23:56	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
07914	Boron	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103345708001	12/07/2010 17:15	Eric L Eby	5
10146	Zirconium	SW-846 6010B	1	103345708001	12/03/2010 21:08	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103341026001A	12/02/2010 13:50	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103341026001A	12/02/2010 13:50	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103341026001D	12/02/2010 13:50	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103341026001A	12/02/2010 13:50	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103341026001A	12/02/2010 13:50	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103341026001A	12/02/2010 13:50	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103341026001A	12/02/2010 13:50	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103341026001A	12/02/2010 13:50	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103371026002A	12/08/2010 13:03	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103341026001C	12/02/2010 13:50	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103341026001A	12/02/2010 13:50	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103341026001B	12/02/2010 13:50	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103341026001A	12/02/2010 13:50	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103341026001A	12/02/2010 13:50	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103371026002A	12/08/2010 13:03	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103341026001A	12/02/2010 13:50	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103345711001	11/30/2010 19:24	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103345708001	11/30/2010 11:39	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103341026001	11/30/2010 11:52	James L Mertz	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	2	103371026002	12/05/2010 20:25	Annamaria Stipkovits	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103345711001	11/30/2010 12:50	James L Mertz	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201B	12/08/2010 19:38	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201B	12/08/2010 19:38	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10340340201B	12/07/2010 18:16	William L Hamaker Jr	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 20:38	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10340102201A	12/06/2010 19:29	Joseph E McKenzie	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-061-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-061-SA5C-SB-9.0-10.0

LLI Sample # SW 6150588
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 12:39 by PH

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

SL619 SDG#: DE023-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201B	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10340340201B	12/06/2010 14:10	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10340102201A	12/06/2010 16:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10333182101B	11/29/2010 13:15	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10333039405A	11/29/2010 14:15	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	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: TB-112410 Water
SSFL Area IV Collocated Soil Sampling
TB-112410

LLI Sample # WW 6150589
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 13:00

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

T1124 SDG#: DE023-05TB*

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

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

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

Sample Description: TB-112410 Water
SSFL Area IV Collocated Soil Sampling
TB-112410

LLI Sample # WW 6150589
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 13:00

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

T1124 SDG#: DE023-05TB*

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
The LCS and recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analyte is accepted based on this allowance: Freon 133a.							

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	Y103331AA	11/29/2010 21:15	Frank A Valla, Jr	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103311AA	11/27/2010 15:25	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103311AA	11/27/2010 15:25	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103331AA	11/29/2010 21:15	Frank A Valla, Jr	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

Page 3 of 3

Sample Description: TB-112410 Water
SSFL Area IV Collocated Soil Sampling
TB-112410

LLI Sample # WW 6150589
LLI Group # 1222908
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/24/2010 13:00

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

Submitted: 11/26/2010 09:30

Reported: 01/04/2011 13:09

T1124 SDG#: DE023-05TB*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10335C20A	12/02/2010 17:50	Butch A Sokolowski	1
01146	GC VOA Water Prep	SW-846 5030B	1	10335C20A	12/02/2010 17:50	Butch A Sokolowski	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: 01/04/11 at 01:09 PM

Group Number: 1222908

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: B103341AA Sample number(s): 6150585-6150587									
Acetone	6.7 U	6.7	8.0	ug/kg	114	110	32-209	3	30
Benzene	0.10 U	0.10	4.0	ug/kg	101	94	80-120	8	30
Bromobenzene	0.13 U	0.13	4.0	ug/kg	91	89	79-120	2	30
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	102	97	79-124	4	30
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	98	93	78-120	5	30
Bromoform	0.40 U	0.40	4.0	ug/kg	98	95	70-120	4	30
Bromomethane	0.25 U	0.25	4.0	ug/kg	76	70	32-162	7	30
2-Butanone	1.2 U	1.2	8.0	ug/kg	104	102	46-153	1	30
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	93	86	72-120	7	30
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	93	87	75-120	7	30
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	90	83	75-120	8	30
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	101	90	69-122	11	30
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	94	89	80-120	5	30
Chloroethane	0.13 U	0.13	4.0	ug/kg	78	71	37-154	9	30
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	114	112	43-146	1	30
Chloroform	0.12 U	0.12	4.0	ug/kg	103	94	80-120	8	30
Chloromethane	0.33 U	0.33	4.0	ug/kg	77	74	54-132	4	30
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	91	86	78-120	5	30
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	91	87	79-120	5	30
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	101	96	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	94	95	58-120	0	30
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	94	92	77-120	2	30
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	96	94	80-120	3	30
Dibromomethane	0.24 U	0.24	4.0	ug/kg	102	99	80-120	3	30
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	93	90	79-120	3	30
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	90	87	78-120	3	30
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	91	88	79-120	4	30
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	58	51	20-120	13	30
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	100	92	80-120	7	30
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	104	98	71-129	6	30
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	100	90	73-123	11	30
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	100	94	80-120	7	30
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	100	92	79-120	8	30
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	97	92	80-120	5	30
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	94	92	80-120	3	30
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	100	89	72-123	11	30
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	97	88	77-120	9	30
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	93	89	80-120	4	30
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	90	89	77-120	2	30
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	96	89	80-120	8	30
Freon 113	0.11 U	0.11	4.0	ug/kg	99	87	61-126	13	30
Freon 133a	0.50 U	0.50	5.0	ug/kg	93	90	78-120	4	30
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	91	85	57-120	8	30
2-Hexanone	1.6 U	1.6	8.0	ug/kg	74	74	45-155	1	30
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	95	89	76-120	7	30
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	94	87	75-120	8	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: 01/04/11 at 01:09 PM

Group Number: 1222908

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	101	99	74-121	2	30
4-Methyl-2-pentanol	0.39 U	0.39	8.0	ug/kg	82	81	61-134	1	30
Methylene Chloride	0.84 J	0.24	4.0	ug/kg	99	92	76-124	7	30
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	94	88	77-120	7	30
Styrene	0.10 U	0.10	4.0	ug/kg	95	90	76-120	5	30
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	96	90	80-120	6	30
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	92	91	71-123	1	30
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	95	89	77-120	7	30
Toluene	0.08 U	0.08	4.0	ug/kg	95	88	80-120	7	30
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	93	93	64-120	0	30
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	92	90	68-120	2	30
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	104	93	71-125	10	30
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	95	92	80-120	3	30
Trichloroethene	0.15 U	0.15	4.0	ug/kg	99	91	80-120	9	30
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	86	75	58-133	13	30
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	95	94	71-123	1	30
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	93	88	79-120	6	30
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	93	87	78-120	6	30
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	77	69	53-120	11	30
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	96	90	80-120	7	30
o-Xylene	0.17 U	0.17	4.0	ug/kg	93	87	80-120	6	30
Batch number: E103311AA	Sample number(s): 6150589								
1,4-Dioxane	0.5 U	0.5	2.0	ug/l	99	102	60-132	3	30
Batch number: E103312AA	Sample number(s): 6150585-6150587								
1,4-Dioxane	5.0 U	5.0	15	ug/kg	104		70-130		
Batch number: Y103331AA	Sample number(s): 6150589								
Acetone	6 U	6.	20	ug/l	123	120	49-234	3	30
Benzene	0.5 U	0.5	5	ug/l	98	96	79-120	2	30
Bromobenzene	1 U	1.	5	ug/l	103	104	80-120	2	30
Bromochloromethane	1 U	1.	5	ug/l	94	92	80-120	2	30
Bromodichloromethane	1 U	1.	5	ug/l	92	97	80-120	5	30
Bromoform	1 U	1.	5	ug/l	92	93	61-120	1	30
Bromomethane	1 U	1.	5	ug/l	102	101	44-120	1	30
2-Butanone	3 U	3.	10	ug/l	105	102	66-151	3	30
n-Butylbenzene	1 U	1.	5	ug/l	102	100	74-120	2	30
sec-Butylbenzene	1 U	1.	5	ug/l	109	107	78-120	1	30
tert-Butylbenzene	1 U	1.	5	ug/l	99	98	80-120	1	30
Carbon Tetrachloride	1 U	1.	5	ug/l	102	103	75-123	1	30
Chlorobenzene	0.8 U	0.8	5	ug/l	97	95	80-120	2	30
Chloroethane	1 U	1.	5	ug/l	92	92	49-129	0	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	108	112	56-129	4	30
Chloroform	0.8 U	0.8	5	ug/l	99	99	77-122	0	30
Chloromethane	1 U	1.	5	ug/l	89	89	60-129	0	30
2-Chlorotoluene	1 U	1.	5	ug/l	107	104	80-120	3	30
4-Chlorotoluene	1 U	1.	5	ug/l	101	98	80-120	3	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	52	50	38-136	5	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	111	113	66-120	2	30
Dibromochloromethane	1 U	1.	5	ug/l	94	93	80-120	1	30
1,2-Dibromoethane	1 U	1.	5	ug/l	100	98	80-120	1	30
Dibromomethane	1 U	1.	5	ug/l	97	97	80-120	0	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	97	96	80-120	1	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	101	101	80-120	1	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	99	98	80-120	1	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	77	83	47-120	8	30
1,1-Dichloroethane	1 U	1.	5	ug/l	99	103	79-120	4	30

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:09 PM

Group Number: 1222908

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1 U	1.	5	ug/l	99	98	70-130	0	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	108	105	74-123	2	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	98	97	80-120	0	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	98	99	80-120	1	30
1,2-Dichloropropane	1 U	1.	5	ug/l	98	98	78-120	0	30
1,3-Dichloropropane	1 U	1.	5	ug/l	100	99	80-120	1	30
2,2-Dichloropropane	1 U	1.	5	ug/l	91	93	77-124	2	30
1,1-Dichloropropene	1 U	1.	5	ug/l	100	98	80-120	2	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	88	91	80-120	3	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	92	94	79-120	2	30
Ethylbenzene	0.8 U	0.8	5	ug/l	100	99	79-120	2	30
Freon 113	2 U	2.	10	ug/l	121	119	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	76*	73*	77-120	4	30
Hexachlorobutadiene	2 U	2.	5	ug/l	96	96	58-120	1	30
2-Hexanone	3 U	3.	10	ug/l	107	106	65-136	1	30
Isopropylbenzene	1 U	1.	5	ug/l	98	97	77-120	2	30
p-Isopropyltoluene	1 U	1.	5	ug/l	106	104	80-120	2	30
Methyl Tertiary Butyl Ether	0.5 U	0.5	5	ug/l	96	100	76-120	4	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	103	105	70-121	2	30
Methylene Chloride	2 U	2.	5	ug/l	91	102	80-120	12	30
n-Propylbenzene	1 U	1.	5	ug/l	112	110	80-120	2	30
Styrene	1 U	1.	5	ug/l	98	97	80-120	1	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	99	97	80-120	2	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	111	110	71-120	1	30
Tetrachloroethene	0.8 U	0.8	5	ug/l	97	97	80-121	1	30
Toluene	0.7 U	0.7	5	ug/l	101	99	79-120	2	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	98	97	65-120	0	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	97	96	67-120	1	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	97	99	75-127	2	30
1,1,2-Trichloroethane	0.8 U	0.8	5	ug/l	100	98	80-120	2	30
Trichloroethene	1 U	1.	5	ug/l	94	95	80-120	1	30
Trichlorofluoromethane	2 U	2.	5	ug/l	110	110	64-129	0	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	115	109	80-120	5	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	110	106	74-120	4	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	107	105	75-120	2	30
Vinyl Chloride	1 U	1.	5	ug/l	82	83	65-125	1	30
m+p-Xylene	0.8 U	0.8	5	ug/l	94	92	80-120	2	30
o-Xylene	0.8 U	0.8	5	ug/l	97	94	80-120	3	30

Batch number: 10333SLA026

Sample number(s): 6150585-6150588

Aniline	170 U	170.	500	ug/kg	47	10-107
Benzidine	1,200 U	1,200.	3,300	ug/kg	35	15-121
Benzoic acid	170 U	170.	500	ug/kg	86	10-154
Benzyl alcohol	170 U	170.	500	ug/kg	70	68-111
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	87	79-117
Carbazole	17 U	17.	170	ug/kg	88	77-113
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	86	74-119
4-Chloroaniline	67 U	67.	170	ug/kg	26	10-110
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	83	70-118
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	78	70-104
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	72	68-131
2-Chloronaphthalene	17 U	17.	170	ug/kg	70	67-127
2-Chlorophenol	17 U	17.	170	ug/kg	87	72-112
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	92	79-110

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:09 PM

Group Number: 1222908

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Dibenzofuran	17	U	17.	170	ug/kg	91		79-108		
1,2-Dichlorobenzene	17	U	17.	170	ug/kg	81		79-102		
1,3-Dichlorobenzene	17	U	17.	170	ug/kg	82		70-98		
1,4-Dichlorobenzene	17	U	17.	170	ug/kg	83		74-106		
3,3'-Dichlorobenzidine	100		100.	330	ug/kg	44		38-105		
	U									
2,4-Dichlorophenol	17	U	17.	170	ug/kg	89		75-111		
2,4-Dimethylphenol	33	U	33.	170	ug/kg	86		72-111		
3,5-Dimethylphenol	33	U	33.	170	ug/kg	107		70-130		
4,6-Dinitro-2-methylphenol	170		170.	500	ug/kg	74		53-110		
	U									
2,4-Dinitrophenol	670		670.	2,000	ug/kg	68		37-120		
	U									
2,4-Dinitrotoluene	33	U	33.	170	ug/kg	88		73-115		
2,6-Dinitrotoluene	17	U	17.	170	ug/kg	89		79-115		
1,2-Diphenylhydrazine	17	U	17.	170	ug/kg	86		77-111		
Hexachlorobenzene	17	U	17.	170	ug/kg	91		78-116		
Hexachlorobutadiene	67	U	67.	170	ug/kg	84		70-112		
Hexachlorocyclopentadiene	170		170.	500	ug/kg	83		46-115		
	U									
Hexachloroethane	17	U	17.	170	ug/kg	79		68-105		
Isophorone	17	U	17.	170	ug/kg	80		69-110		
2-Methylphenol	33	U	33.	170	ug/kg	84		66-110		
4-Methylphenol	33	U	33.	170	ug/kg	80		66-117		
2-Nitroaniline	17	U	17.	170	ug/kg	88		78-116		
3-Nitroaniline	33	U	33.	170	ug/kg	76		62-109		
4-Nitroaniline	67	U	67.	170	ug/kg	60		49-98		
Nitrobenzene	17	U	17.	170	ug/kg	80		71-104		
2-Nitrophenol	17	U	17.	170	ug/kg	86		81-114		
4-Nitrophenol	170		170.	500	ug/kg	70		56-118		
	U									
N-Nitroso-di-n-propylamine	17	U	17.	170	ug/kg	75		63-107		
N-Nitrosodiphenylamine	17	U	17.	170	ug/kg	90		67-141		
Pentachlorophenol	170		170.	500	ug/kg	84		35-106		
	U									
Phenol	17	U	17.	170	ug/kg	79		58-112		
1,2,4-Trichlorobenzene	17	U	17.	170	ug/kg	89		73-108		
2,4,5-Trichlorophenol	33	U	33.	170	ug/kg	90		76-107		
2,4,6-Trichlorophenol	33	U	33.	170	ug/kg	89		78-111		
Batch number: 10333SLD026	Sample number(s): 6150586-6150588									
N-Nitrosodimethylamine	32.8	J	16.7	33.3	ng/kg	97		70-130		
Batch number: 10333SLH026	Sample number(s): 6150585-6150588									
Acenaphthene	0.67	U	0.67	1.7	ug/kg	81		63-120		
Acenaphthylene	0.33	U	0.33	1.7	ug/kg	80		60-120		
Anthracene	0.33	U	0.33	1.7	ug/kg	82		55-120		
Benzo(a)anthracene	0.67	U	0.67	1.7	ug/kg	89		74-120		
Benzo(a)pyrene	0.67	U	0.67	1.7	ug/kg	81		58-129		
Benzo(b)fluoranthene	0.67	U	0.67	1.7	ug/kg	91		63-143		
Benzo(g,h,i)perylene	0.67	U	0.67	1.7	ug/kg	77		44-138		
Benzo(k)fluoranthene	0.67	U	0.67	1.7	ug/kg	90		66-137		
Butylbenzylphthalate	6.0	U	6.0	18	ug/kg	87		65-131		
Di-n-butylphthalate	6.0	U	6.0	18	ug/kg	87		84-132		
Chrysene	0.33	U	0.33	1.7	ug/kg	88		79-120		
Dibenz(a,h)anthracene	0.67	U	0.67	1.7	ug/kg	80		62-142		
Diethylphthalate	6.0	U	6.0	18	ug/kg	89		68-125		
Dimethylphthalate	6.0	U	6.0	18	ug/kg	91		70-130		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:09 PM

Group Number: 1222908

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	93		67-143		
Fluoranthene	0.67 U	0.67	1.7	ug/kg	88		78-120		
Fluorene	0.67 U	0.67	1.7	ug/kg	89		71-120		
Indeno(1,2,3-cd)pyrene	0.67 U	0.67	1.7	ug/kg	81		62-141		
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	84		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	75		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	79		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	91		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	83		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	83		56-121		
Batch number: 10332A34A	Sample number(s): 6150586-6150587								
9a TPH by EPA 8015B Gas	0.2 U	0.2	1.0	mg/kg	73	77	67-119	6	30
Batch number: 10335C20A	Sample number(s): 6150589								
TPH-GRO S.CA water C5-C12	20 U	20.	50	ug/l	109	100	75-135	9	30
Batch number: 103380015A	Sample number(s): 6150586-6150588								
4-Amino-2,6-Dinitrotoluene	75 U	75.	150	ug/kg	103		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	65	88	54-134	30	30
2,4-Diamino-6-nitrotoluene	100 U	100.	300	ug/kg	65	88	54-134	30	30
1,3-Dinitrobenzene	50 U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50 U	50.	150	ug/kg	104		72-135		
2,6-Dinitrotoluene	50 U	50.	150	ug/kg	104		80-120		
HMX	130 U	130.	380	ug/kg	98		74-130		
Nitrobenzene	50 U	50.	150	ug/kg	105		80-120		
Nitroglycerin	1,000 U	1,000.	3,000	ug/kg	95		80-120		
2-Nitrotoluene	100 U	100.	150	ug/kg	107		78-128		
3-Nitrotoluene	130 U	130.	150	ug/kg	104		73-127		
4-Nitrotoluene	100 U	100.	150	ug/kg	103		80-120		
PETN	1,000 U	1,000.	3,000	ug/kg	105		80-120		
RDX	63 U	63.	150	ug/kg	100		75-131		
Tetryl	77 U	77.	150	ug/kg	109		70-168		
1,3,5-Trinitrobenzene	50 U	50.	150	ug/kg	113		77-137		
2,4,6-Trinitrotoluene	50 U	50.	150	ug/kg	106		80-120		
Batch number: 103350004A	Sample number(s): 6150586-6150588								
17a Formaldehyde by 8315A	600 U	600.	1,500	ug/kg	102		80-126		
Batch number: 103340014A	Sample number(s): 6150585-6150587								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	85	73*	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	92		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					

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:09 PM

Group Number: 1222908

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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	104		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: 103410008A Sample number(s): 6150588									
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	54*	60*	75-125	11	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	87		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	97		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: 103330011A Sample number(s): 6150586-6150588									
EFH (C12-C14)	0.40 U	0.40	1.2	mg/kg	90		66-113		
EFH (C15-C20)	0.40 U	0.40	1.2	mg/kg	96		66-113		
EFH (C21-C30)	0.40 U	0.40	1.2	mg/kg	101		66-113		
EFH (C30 - C40)	0.40 U	0.40	1.2	mg/kg	96		66-113		
EFH (C8-C11)	0.40 U	0.40	1.2	mg/kg	85		66-113		
Batch number: 103330001A Sample number(s): 6150586-6150587									
Ethanol	100 U	100.	500	ug/kg	184*		75-112		
Isopropanol	100 U	100.	500	ug/kg	178*		75-125		
Methanol	100 U	100.	500	ug/kg	207*		75-134		
Batch number: 103340009A Sample number(s): 6150586-6150588									
Diethylene glycol	5.0 U	5.0	13	mg/kg	95		75-125		
Ethylene glycol	5.0 U	5.0	13	mg/kg	94		75-125		
Propylene glycol	5.0 U	5.0	13	mg/kg	97		75-125		
Batch number: 103340018A Sample number(s): 6150588									
Ethanol	100 U	100.	500	ug/kg	122*		75-112		
Isopropanol	100 U	100.	500	ug/kg	122		75-125		
Methanol	100 U	100.	500	ug/kg	122		75-134		
Batch number: 103330028A Sample number(s): 6150586-6150588									
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	97		75-125		
Batch number: 10334001 Sample number(s): 6150586-6150588									
1,1-Dimethylhydrazine	2.0 U	2.0	5.0	ng/g	100	98	70-130	3	30
Hydrazine	0.50 U	0.50	2.0	ng/g	108	94	70-130	13	30
Methylhydrazine	2.0 U	2.0	5.0	ng/g	104	101	70-130	3	30

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Reported: 01/04/11 at 01:09 PM

Group Number: 1222908

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 103341026001A	Sample number(s): 6150585-6150588								
Antimony	0.0600 U	0.0600	0.200	mg/kg	70		11-208		
Arsenic	0.0600 U	0.0600	0.400	mg/kg	94		80-120		
Beryllium	0.0160 U	0.0160	0.100	mg/kg	95		82-118		
Cadmium	0.0360 U	0.0360	0.100	mg/kg	96		82-118		
Chromium	0.120 U	0.120	0.400	mg/kg	102		80-120		
Cobalt	0.0223 J	0.0200	0.100	mg/kg	96		82-118		
Copper	0.0660 U	0.0660	0.400	mg/kg	99		80-120		
Nickel	0.100 U	0.100	0.400	mg/kg	94		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	102		81-119		
Zinc	0.560 U	0.560	3.00	mg/kg	97		78-122		
Batch number: 103341026001B	Sample number(s): 6150585-6150588								
Selenium	0.0400 U	0.0400	0.400	mg/kg	98		79-122		
Batch number: 103341026001C	Sample number(s): 6150585-6150588								
Molybdenum	0.0500 U	0.0500	0.100	mg/kg	103		78-122		
Batch number: 103341026001D	Sample number(s): 6150585-6150588								
Barium	0.108 U	0.108	0.400	mg/kg	95		79-121		
Batch number: 103345708001	Sample number(s): 6150585-6150588								
Aluminum	6.76 J	4.98	19.8	mg/kg	94		61-110		
Boron	0.881 U	0.881	4.95	mg/kg	95		78-110		
Calcium	13.4 J	6.07	19.8	mg/kg	97		88-110		
Iron	4.66 U	4.66	19.8	mg/kg	86		61-110		
Lithium	0.30 J	0.22	2.0	mg/kg	99		80-120		
Magnesium	2.51 U	2.51	9.90	mg/kg	93		82-110		
Manganese	0.0772 U	0.0772	0.495	mg/kg	98		81-119		
Phosphorus	0.980 J	0.554	9.90	mg/kg	103		80-120		
Potassium	17.8 U	17.8	49.5	mg/kg	91		78-110		
Sodium	36.9 U	36.9	99.0	mg/kg	96		87-110		
Strontium	0.0723 J	0.0614	0.495	mg/kg	99		79-121		
Tin	1.07 J	0.990	9.90	mg/kg	94		90-114		
Titanium	0.376 U	0.376	0.990	mg/kg	87		80-120		
Zirconium	0.832 U	0.832	4.95	mg/kg	95		80-120		
Batch number: 103345711001	Sample number(s): 6150585-6150588								
Mercury	0.0028 U	0.0028	0.0969	mg/kg	102		88-123		
Batch number: 103371026002A	Sample number(s): 6150585-6150588								
Lead	0.0104 U	0.0104	0.200	mg/kg	106		80-120		
Vanadium	0.0220 U	0.0220	0.100	mg/kg	99		90-110		
Batch number: 10340102201A	Sample number(s): 6150586-6150588								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	95		80-120		
Batch number: 10340340201B	Sample number(s): 6150585-6150588								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	102		85-115		
Batch number: 10341341201B	Sample number(s): 6150585-6150588								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	100		90-110		
Batch number: 10347243201A	Sample number(s): 6150585-6150588								
3a Cr VI by EPA 7199	5.0 U	5.0	1.0	mg/kg	99		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:09 PM

Group Number: 1222908

<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: 10333039405A 22a pH by 9045C	Sample number(s): 6150585-6150588				101		95-105		
Batch number: 10333182101B Oxidation Reduction Potential	Sample number(s): 6150585-6150588				99		98-102		
Batch number: 10334162401A 28a Total Solids by 160.3	Sample number(s): 6150585				100		80-120		
Batch number: 10347162401A 28a Total Solids by 160.3	Sample number(s): 6150586-6150588				100		80-120		

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</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: B103341AA	Sample number(s): 6150585-6150587 UNSPK: 6150585								
Acetone	117		15-210						
Benzene	104		55-143						
Bromobenzene	94		43-139						
Bromochloromethane	107		60-137						
Bromodichloromethane	101		53-136						
Bromoform	99		38-124						
Bromomethane	78		42-168						
2-Butanone	102		37-163						
n-Butylbenzene	103		30-146						
sec-Butylbenzene	102		33-157						
tert-Butylbenzene	96		41-152						
Carbon Tetrachloride	108		45-153						
Chlorobenzene	99		49-135						
Chloroethane	78		39-152						
2-Chloroethyl Vinyl Ether	109		32-139						
Chloroform	105		61-142						
Chloromethane	85		51-163						
2-Chlorotoluene	97		42-146						
4-Chlorotoluene	96		39-145						
1,2-Dibromo-3-chloropropane	97		30-139						
Dibromochloromethane	97		51-128						
1,2-Dibromoethane	98		54-129						
Dibromomethane	103		57-130						
1,2-Dichlorobenzene	98		36-133						
1,3-Dichlorobenzene	96		34-134						
1,4-Dichlorobenzene	97		35-136						
Dichlorodifluoromethane	62		26-151						
1,1-Dichloroethane	102		63-142						
1,2-Dichloroethane	106		68-131						
1,1-Dichloroethene	107		61-149						
cis-1,2-Dichloroethene	103		60-136						
trans-1,2-Dichloroethene	105		59-142						
1,2-Dichloropropane	100		62-135						
1,3-Dichloropropane	98		58-129						

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,2-Dichloropropane	103		53-147						
1,1-Dichloropropene	105		54-145						
cis-1,3-Dichloropropene	94		51-131						
trans-1,3-Dichloropropene	93		49-129						
Ethylbenzene	101		44-141						
Freon 113	110		56-156						
Hexachlorobutadiene	101		10-155						
2-Hexanone	73		32-160						
Isopropylbenzene	103		38-144						
p-Isopropyltoluene	101		29-152						
Methyl Tertiary Butyl Ether	100		55-129						
4-Methyl-2-pentanone	79		46-139						
Methylene Chloride	97		61-141						
n-Propylbenzene	102		39-157						
Styrene	101		35-134						
1,1,1,2-Tetrachloroethane	100		52-130						
1,1,2,2-Tetrachloroethane	95		40-152						
Tetrachloroethene	109		42-149						
Toluene	99		50-146						
1,2,3-Trichlorobenzene	97		10-140						
1,2,4-Trichlorobenzene	95		10-136						
1,1,1-Trichloroethane	109		64-142						
1,1,2-Trichloroethane	98		54-139						
Trichloroethene	104		53-144						
Trichlorofluoromethane	95		47-163						
1,2,3-Trichloropropane	97		45-154						
1,2,4-Trimethylbenzene	99		37-149						
1,3,5-Trimethylbenzene	99		38-150						
Vinyl Chloride	83		50-154						
m+p-Xylene	102		44-137						
o-Xylene	97		42-137						
Batch number: E103312AA	Sample number(s): 6150585-6150587 UNSPK: P149366								
1,4-Dioxane	106	109	70-130	18	30				
Batch number: 10333SLA026	Sample number(s): 6150585-6150588 UNSPK: 6150585								
Aniline	68	48	14-114	34*	30				
Benzidine	53	26*	35-141	68*	30				
Benzoic acid	44	61	10-173	31*	30				
Benzyl alcohol	64	72	55-123	12	30				
4-Bromophenyl-phenylether	81	87	67-129	6	30				
Carbazole	82	90	64-120	9	30				
4-Chloro-3-methylphenol	80	87	53-130	8	30				
4-Chloroaniline	70	36	23-95	64*	30				
bis(2-Chloroethoxy)methane	80	82	54-117	2	30				
bis(2-Chloroethyl)ether	75	77	60-116	3	30				
bis(2-Chloroisopropyl)ether	69	71	55-142	4	30				
2-Chloronaphthalene	69	70	50-141	2	30				
2-Chlorophenol	80	86	73-121	6	30				
4-Chlorophenyl-phenylether	88	94	64-119	6	30				
Dibenzofuran	85	91	71-112	7	30				
1,2-Dichlorobenzene	76	81	66-108	6	30				
1,3-Dichlorobenzene	74	80	63-109	7	30				

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Sample Matrix Quality Control

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,4-Dichlorobenzene	75	81	53-113	8	30				
3,3'-Dichlorobenzidine	68	42	25-123	48*	30				
2,4-Dichlorophenol	87	90	78-117	3	30				
2,4-Dimethylphenol	84	87	56-130	4	30				
3,5-Dimethylphenol	107	103	70-130	4	30				
4,6-Dinitro-2-methylphenol	74	74	10-148	1	30				
2,4-Dinitrophenol	56	63	20-143	12	30				
2,4-Dinitrotoluene	83	88	57-114	7	30				
2,6-Dinitrotoluene	84	92	69-123	9	30				
1,2-Diphenylhydrazine	81	87	71-129	7	30				
Hexachlorobenzene	83	93	61-111	12	30				
Hexachlorobutadiene	83	83	62-120	0	30				
Hexachlorocyclopentadiene	83	76	10-153	9	30				
Hexachloroethane	74	77	57-109	4	30				
Isophorone	77	80	51-118	4	30				
2-Methylphenol	83	88	47-142	6	30				
4-Methylphenol	79	81	55-126	2	30				
2-Nitroaniline	86	87	67-125	1	30				
3-Nitroaniline	81	80	59-122	2	30				
4-Nitroaniline	66	63	52-112	5	30				
Nitrobenzene	79	80	51-114	2	30				
2-Nitrophenol	83	87	74-115	5	30				
4-Nitrophenol	71	73	39-133	2	30				
N-Nitroso-di-n-propylamine	71	75	60-116	5	30				
N-Nitrosodiphenylamine	84*	92	86-145	9	30				
Pentachlorophenol	77	78	17-149	1	30				
Phenol	78	80	58-126	3	30				
1,2,4-Trichlorobenzene	84	87	72-115	4	30				
2,4,5-Trichlorophenol	86	93	34-139	8	30				
2,4,6-Trichlorophenol	83	88	49-140	6	30				

Batch number: 10333SLD026 Sample number(s): 6150586-6150588 UNSPK: P144599
N-Nitrosodimethylamine 100 105 70-130 5 30

Batch number: 10333SLH026 Sample number(s): 6150585-6150588 UNSPK: P149366
Acenaphthene 88 81 63-105 8 30
Acenaphthylene 88 81 55-126 8 30
Anthracene 89 84 46-136 6 30
Benzo(a)anthracene 94 90 39-144 5 30
Benzo(a)pyrene 86 83 34-156 4 30
Benzo(b)fluoranthene 99 95 43-155 4 30
Benzo(g,h,i)perylene 66 61 33-141 8 30
Benzo(k)fluoranthene 89 83 42-144 6 30
Butylbenzylphthalate 93 85 73-140 8 30
Di-n-butylphthalate 99 88 78-160 12 30
Chrysene 92 87 29-156 6 30
Dibenz(a,h)anthracene 75 70 41-130 7 30
Diethylphthalate 100 87 87-131 13 30
Dimethylphthalate 98 91 74-118 7 30
Bis(2-Ethylhexyl)phthalate 103 95 39-167 9 30
Fluoranthene 94 89 26-166 5 30
Fluorene 95 89 45-121 7 30
Indeno(1,2,3-cd)pyrene 74 70 21-143 7 30

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1-Methylnaphthalene	91	86	72-123	6	30				
2-Methylnaphthalene	82	76	28-121	7	30				
Naphthalene	86	81	61-102	5	30				
N-Nitrosodimethylamine	76	71	48-113	6	30				
Di-n-octylphthalate	96	87	40-192	9	30				
Phenanthrene	88	83	12-165	6	30				
Pyrene	87	82	15-153	6	30				
Batch number: 10335C20A	Sample number(s): 6150589 UNSPK: P151647								
TPH-GRO S.CA water C5-C12	89		63-154						
Batch number: 103380015A	Sample number(s): 6150586-6150588 UNSPK: P154843								
4-Amino-2,6-Dinitrotoluene	106	104	80-127	1	50				
2-Amino-4,6-Dinitrotoluene	107	106	80-137	1	50				
1,3-Dinitrobenzene	114	103	38-166	10	50				
2,4-Dinitrotoluene	103	102	80-131	1	50				
2,6-Dinitrotoluene	106	105	80-127	1	50				
HMX	98	98	63-128	0	50				
Nitrobenzene	103	101	80-125	1	50				
Nitroglycerin	102	101	80-120	1	50				
2-Nitrotoluene	107	107	80-122	0	50				
3-Nitrotoluene	105	105	72-119	0	50				
4-Nitrotoluene	104	102	80-125	2	50				
PETN	109	108	80-121	1	50				
RDX	94	94	75-129	0	50				
Tetryl	111	106	55-174	4	50				
1,3,5-Trinitrobenzene	114	112	82-126	2	50				
2,4,6-Trinitrotoluene	105	103	82-130	2	50				
Batch number: 103350004A	Sample number(s): 6150586-6150588 UNSPK: 6150586								
17a Formaldehyde by 8315A	98	91	80-120	8	50				
Batch number: 103340014A	Sample number(s): 6150585-6150587 UNSPK: 6150585								
PCB-1016	92	97	29-146	5	50				
PCB-1260	99	110	39-149	10	50				
Batch number: 103410008A	Sample number(s): 6150588 UNSPK: P156146								
PCB-1016	83	77	29-146	7	50				
PCB-1260	89	84	39-149	6	50				
Batch number: 103330011A	Sample number(s): 6150586-6150588 UNSPK: P148499								
EFH (C12-C14)	77	80	49-123	3	20				
EFH (C15-C20)	90	96	49-123	6	20				
EFH (C21-C30)	103	108	49-123	5	20				
EFH (C30 - C40)	114	102	49-123	11	20				
EFH (C8-C11)	73	58	49-123	22*	20				
Batch number: 103330001A	Sample number(s): 6150586-6150587 UNSPK: P149362								
Ethanol	124	100	24-143	21*	20				
Isopropanol	115	103	75-125	12	20				
Methanol	143*	98	45-136	38*	20				
Batch number: 103340009A	Sample number(s): 6150586-6150588 UNSPK: P149362								

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Diethylene glycol	103	83	59-109	22*	20				
Ethylene glycol	104	92	63-107	13	20				
Propylene glycol	103	88	63-107	15	20				
Batch number: 103340018A	Sample number(s): 6150588 UNSPK: P151503								
Ethanol	90	86	24-143	4	20				
Isopropanol	89	85	75-125	5	20				
Methanol	87	88	45-136	1	20				
Batch number: 103330028A	Sample number(s): 6150586-6150588 UNSPK: P148497								
m-Terphenyl	89	89	75-125	0	20				
o-Terphenyl	92	92	75-125	1	20				
p-Terphenyl	89	90	75-125	1	20				
Batch number: 10334001	Sample number(s): 6150586-6150588 UNSPK: 6150588								
1,1-Dimethylhydrazine	39	41	10-116	5	30				
Hydrazine	10*	10*	11-102	0	30				
Methylhydrazine	11	11	10-92	2	30				
Batch number: 103341026001A	Sample number(s): 6150585-6150588 UNSPK: 6150588 BKG: 6150588								
Antimony	49*	34*	75-125	32*	20	0.113 J	0.0594 U	200* (1)	20
Arsenic	173*	84	75-125	37*	20	2.34	1.67	34* (1)	20
Beryllium	110	90	75-125	16	20	0.343	0.271	23* (1)	20
Cadmium	129*	103	75-125	24*	20	0.118	0.0799 J	39* (1)	20
Chromium	118	105	75-125	7	20	12.2	14.9	20	20
Cobalt	112	88	75-125	24*	20	4.62	4.32	7	20
Copper	110	72*	75-125	21*	20	10.0	9.29	8	20
Nickel	125	98	75-125	16	20	7.45	9.37	23*	20
Silver	124	99	75-125	25*	20	0.0262 J	0.0220 J	17 (1)	20
Thallium	123	94	75-125	21*	20	0.183	0.158	15 (1)	20
Zinc	115 (2)	75 (2)	75-125	8	20	45.9	34.5	28*	20
Batch number: 103341026001B	Sample number(s): 6150585-6150588 UNSPK: 6150588 BKG: 6150588								
Selenium	101	89	75-125	15	20	0.0765 J	0.0614 J	22* (1)	20
Batch number: 103341026001C	Sample number(s): 6150585-6150588 UNSPK: 6150588 BKG: 6150588								
Molybdenum	120	96	75-125	25*	20	0.414	0.275	40* (1)	20
Batch number: 103341026001D	Sample number(s): 6150585-6150588 UNSPK: 6150588 BKG: 6150588								
Barium	102 (2)	-192 (2)	75-125	30*	20	98.8	65.5	41*	20
Batch number: 103345708001	Sample number(s): 6150585-6150588 UNSPK: 6150585 BKG: 6150585								
Aluminum	1266 (2)	2655 (2)	75-125	11	20	21,700	21,100	3	20
Boron	95	90	84-115	6	20	2.75 J	0.856 U	200* (1)	20
Calcium	-144 (2)	73 (2)	75-125	28*	20	3,200	2,230	36*	20
Iron	-2662 (2)	1019 (2)	75-125	15	20	24,300	25,400	4	20
Lithium	95	96	82-114	1	20	21.6	21.2	2	20
Magnesium	31 (2)	352 (2)	75-125	13	20	4,580	4,520	1	20
Manganese	86	115	75-125	8	20	129	146	12	20

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup Max	RPD
Phosphorus	70*	95	75-125	12	20	134	154	14	20	
Potassium	109	131*	75-125	8	20	1,530	1,480	3	20	
Sodium	89	98	75-125	5	20	1,010	1,000	1	20	
Strontium	94	96	75-115	2	20	25.9	24.8	5	20	
Tin	87	86	80-110	1	20	2.39 J	2.05 J	15 (1)	20	
Titanium	177 (2)	231 (2)	75-125	4	20	1,200	1,220	1	20	
Zirconium	91	91	75-125	0	20	3.72 J	4.48 J	19 (1)	20	
Batch number: 103345711001	Sample number(s): 6150585-6150588 UNSPK: 6150585 BKG: 6150585									
Mercury	101	98	65-135	2	20	0.0043 J	0.0028 U	200* (1)	20	
Batch number: 103371026002A	Sample number(s): 6150585-6150588 UNSPK: 6150585 BKG: 6150585									
Lead	265*	122	75-125	33*	20	7.08	7.73	9	20	
Vanadium	260 (2)	151 (2)	75-125	17	20	45.5	49.6	9	20	
Batch number: 10340102201A	Sample number(s): 6150586-6150588 UNSPK: 6150587 BKG: 6150587									
21a Cyanide by 9012B	91		75-125			0.18 U	0.18 U	0 (1)	20	
Batch number: 10340340201B	Sample number(s): 6150585-6150588 UNSPK: 6150585 BKG: 6150585									
7a Perchlorate EPA 314.0	143*		80-120			9.0 U	9.0 U	0 (1)	15	
Batch number: 10341341201B	Sample number(s): 6150585-6150588 UNSPK: P149366 BKG: P149366									
11a Anions by 300.0 - Fluoride	50*		80-120			5.1	4.6	9 (1)	20	
11a Anions by 300.0 - Nitrate	100		80-120			0.80 U	0.80 U	0 (1)	20	
Batch number: 10347243201A	Sample number(s): 6150585-6150588 UNSPK: P149366 BKG: P149366									
3a Cr VI by EPA 7199	99		75-125			2.4	0.20 U	200* (1)	20	
Batch number: 10333039405A	Sample number(s): 6150585-6150588 BKG: 6150585									
22a pH by 9045C						7.66	7.68	0	1	
Batch number: 10333182101B	Sample number(s): 6150585-6150588 BKG: 6150585									
Oxidation Reduction Potential						435	435	0	6	
Batch number: 10334162401A	Sample number(s): 6150585 BKG: P149366									
28a Total Solids by 160.3						4.3	4.1	4	20	
Batch number: 10347162401A	Sample number(s): 6150586-6150588 BKG: P154843									
28a Total Solids by 160.3						21.9	30.1	32*	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: B103341AA

Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6150585 108	107	95	97

*- 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: 01/04/11 at 01:09 PM

Group Number: 1222908

Surrogate Quality Control

6150586	105	102	96	94
6150587	108	104	96	96
Blank	106	103	96	95
LCS	104	107	98	102
LCSD	103	103	98	102
MS	102	103	100	103

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

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103311AA
Toluene-d8

6150589	102
Blank	101
LCS	101
LCSD	101

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103312AA
Toluene-d8

6150585	101
6150586	100
6150587	101
Blank	99
LCS	98
MS	101
MSD	101

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103331AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6150589	100	98	105	100
Blank	99	98	104	99
LCS	100	100	106	104
LCSD	100	97	104	103

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

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10333SLA026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6150585	79	83	89	81	88	79
6150586	81	84	86	79	84	85
6150587	80	83	86	78	84	87
6150588	82	86	88	78	88	87
Blank	77	82	84	74	81	84
LCS	85	88	90	80	87	87
MS	83	87	90	82	88	82
MSD	86	88	92	81	88	89

*- 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: 01/04/11 at 01:09 PM

Group Number: 1222908

Surrogate Quality Control

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

Analysis Name: 19a NDMA by 1625C
Batch number: 10333SLD026
N-Nitrosodimethylamine-d6

6150586	53
6150587	40*
6150588	84
Blank	90
LCS	69
MS	72
MSD	66

Limits: 50-150

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10333SLH026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6150585	67	71	80
6150586	69	74	73
6150587	73	77	75
6150588	75	57	64
Blank	74	80	81
LCS	75	80	77
MS	81	83	80
MSD	76	79	78

Limits:	40-130	45-130	45-135

Analysis Name: 9a TPH by EPA 8015B Gas
Batch number: 10332A34A
Trifluorotoluene-F

6150586	85
6150587	82
Blank	103
LCS	98
LCSD	105

Limits: 61-122

Analysis Name: 9b TPH by EPA 8015B Gas
Batch number: 10335C20A
Trifluorotoluene-F

6150589	84
Blank	84
LCS	110
LCSD	106
MS	109

Limits: 63-135

*- 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: 01/04/11 at 01:09 PM

Group Number: 1222908

Surrogate Quality Control

Analysis Name: 8a PCBs/PCTs by 8082

Batch number: 103340014A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6150585	122	123*
6150586	95	103
6150587	104	100
Blank	110	96
LCS	105	98
LCSD	110	108
MS	101	90
MSD	103	103

Limits: 53-139 45-120

Analysis Name: 17a Formaldehyde by 8315A

Batch number: 103350004A

Butyraldehyde

6150586	101
6150587	80
6150588	107
Blank	97
LCS	104
MS	100
MSD	94

Limits: 64-126

Analysis Name: 20a Energetics by 8330A

Batch number: 103380015A

2-Nitro-m-xylene

6150586	114
6150587	117
6150588	121
Blank	107
LCS	115
LCSD	111
MS	123
MSD	112

Limits: 80-146

Analysis Name: 8a PCBs/PCTs by 8082

Batch number: 103410008A

	Tetrachloro-m-xylene	Decachlorobiphenyl
6150588	101	89
Blank	94	92
LCS	97	89
LCSD	97	91
MS	92	78
MSD	94	82

Limits: 53-139 45-120

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 01/04/11 at 01:09 PM

Group Number: 1222908

Surrogate Quality Control

Analysis Name: 25a Alcohols by 8015B
Batch number: 103330001A
Acetone

6150586	83
6150587	86
Blank	148*
LCS	153*
MS	100
MSD	93

Limits: 42-138

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103330011A
Chlorobenzene Orthoterphenyl

6150586	79	84
6150587	77	83
6150588	81	87
Blank	78	84
LCS	82	88
MS	81	86
MSD	79	86

Limits: 37-125 47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103330028A
n-Triacontane-d62

6150586	99
6150587	92
6150588	96
Blank	106
LCS	103
MS	96
MSD	96

Limits: 50-150

Analysis Name: 27a Glycols by 8015B
Batch number: 103340009A
Tetramethylene glycol

6150586	35*
6150587	24*
6150588	27*
Blank	88
LCS	97
MS	104
MSD	88

Limits: 50-119

Analysis Name: 25a Alcohols by 8015B
Batch number: 103340018A

*- 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: 01/04/11 at 01:09 PM

Group Number: 1222908

Surrogate Quality Control

Acetone

6150588	82
Blank	89
LCS	76
MS	79
MSD	74

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.

sample # 6150585-89

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) <i>Shelly Samantoni</i>																															
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	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	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C	**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols EPA 8015B	**Glycols EPA 8015B	**Terphenyls EPA 8015B		
SL-061-SA5C-SB-4.5	11.24.10	1230	soil	none	5 encore samplers	X	X		X																						
SL-064-SA5C-SB-4.5	11.24.10	1035	soil	none	5 encore samplers	X	X		X																						
SL-063-SA5C-SB-4.5	11.24.10	0912	soil	none	4 encore samplers	X	X																								
TB-112410	11.24.10	1300	water	HCl	4-40 ml vials	X	X		X																						Trip Blank
SL-063-SA5C-SB-4.0-5.0	11.24.10	0918	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X															
SL-064-SA5C-SB-4.0-5.0	11.24.10	1039	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X															
SL-064-SA5C-SB-4.0-5.0	11.24.10	1039	soil	none	1 - 16 oz. jar															X	X		X	X	X					X	
SL-064-SA5C-SB-4.0-5.0	11.24.10	1039	soil	none	3 - 4 oz. jars				X																		X	X			
SL-064-SA5C-SB-4.0-5.0	11.24.10	1039	soil	none	1 - 4 oz. amber jar																X										

acct#13013 Cp#1222908

sample # 6150585-89

CHAIN OF CUSTODY RECORD

[illegible]

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

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

Inorganic Qualifiers

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

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

December 29, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 11/30/2010
Group Number: 1223083
SDG: DE024
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-058-SA5C-SB-3.0-4.0 Soil	6151502
SL-059-SA5C-SB-9.0-10.0 Soil	6151503
SL-059-SA5C-SB-1.0-2.0 Soil	6151504
TB-112910 Water	6151505
SL-075-SA5C-SB-4.0-5.0 Soil	6151506
SL-071-SA5C-SB-9.0-10.0 Soil	6151507
SL-075-SA5C-SB-9.0-10.0 Soil	6151508
SL-071-SA5C-SB-4.0-5.0 Soil	6151509

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

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

Attn: Todd Burgess

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

Respectfully Submitted,



Chad A. Moline
Group Leader

Sample Description: SL-058-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5C-SB-3.0-4.0

LLI Sample # SW 6151502
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 09:45 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05834 SDG#: DE024-01

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	7.2 U	7.2	8.6		1.03
06192	Benzene	71-43-2	0.11 U	0.11	4.3		1.03
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.3		1.03
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.3		1.03
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.3		1.03
06192	Bromoform	75-25-2	0.43 U	0.43	4.3		1.03
06192	Bromomethane	74-83-9	0.27 U	0.27	4.3		1.03
06192	2-Butanone	78-93-3	1.3 U	1.3	8.6		1.03
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.3		1.03
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	4.3		1.03
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.3		1.03
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.3		1.03
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.3		1.03
06192	Chloroethane	75-00-3	0.14 U	0.14	4.3		1.03
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.3		1.03
06192	Chloroform	67-66-3	0.13 U	0.13	4.3		1.03
06192	Chloromethane	74-87-3	0.36 U	0.36	4.3		1.03
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.3		1.03
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.3		1.03
06192	Chlorotrifluoroethene	79-38-9	0.54 U	0.54	5.4		1.03
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.76 U	0.76	4.3		1.03
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.3		1.03
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.3		1.03
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.3		1.03
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.3		1.03
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.3		1.03
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.3		1.03
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.3		1.03
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.3		1.03
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.3		1.03
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.3		1.03
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.3		1.03
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.3		1.03
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.3		1.03
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.3		1.03
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.3		1.03
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.3		1.03
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.3		1.03
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.3		1.03
06192	Ethylbenzene	100-41-4	0.06 U	0.06	4.3		1.03
06192	Freon 113	76-13-1	0.12 U	0.12	4.3		1.03
06192	Freon 133a	75-88-7	0.54 U	0.54	5.4		1.03
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.3		1.03
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.6		1.03
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	4.3		1.03
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.3		1.03
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.3		1.03
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.6		1.03
06192	Methylene Chloride	75-09-2	1.3 J	0.26	4.3		1.03
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.3		1.03

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

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

Sample Description: SL-058-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5C-SB-3.0-4.0

LLI Sample # SW 6151502
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 09:45 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05834 SDG#: DE024-01

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	4.3		1.03
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.3		1.03
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.3		1.03
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.3		1.03
06192	Toluene	108-88-3	0.09 U	0.09	4.3		1.03
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.3		1.03
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.3		1.03
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.3		1.03
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.3		1.03
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.3		1.03
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.3		1.03
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36	4.3		1.03
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43	4.3		1.03
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.3		1.03
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.3		1.03
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.3		1.03
06192	o-Xylene	95-47-6	0.18 U	0.18	4.3		1.03
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.2 U	5.2	16		25.05
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

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

Sample Description: SL-058-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5C-SB-3.0-4.0

LLI Sample # SW 6151502
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 09:45 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05834 SDG#: DE024-01

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	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
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	0.70	U 0.70	1.7		1
10138	Benzo(a)pyrene	50-32-8	0.81	J 0.70	1.7		1
10138	Benzo(b)fluoranthene	205-99-2	1.0	J 0.70	1.7		1
10138	Benzo(g,h,i)perylene	191-24-2	0.82	J 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	1.3	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	6.3	U 6.3	19		1
10138	Fluoranthene	206-44-0	0.70	U 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

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

Sample Description: SL-058-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5C-SB-3.0-4.0

LLI Sample # SW 6151502
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 09:45 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05834 SDG#: DE024-01

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	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	0.91 J	0.70	1.7		1
10138	Pyrene	129-00-0	0.70 U	0.70	1.7		1
Perchlorate SW-846 6850 1/2007							
06557	6a Perchlorate EPA 6850	14797-73-0	2.2 U	2.2	5.2		1
Pesticides/PCBs SW-846 8082							
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	0.54 U	0.54	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	0.35 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.							
Metals SW-846 6010B							
01643	Aluminum	7429-90-5	16,500	5.21	20.7		1
07914	Boron	7440-42-8	7.31	0.923	5.18		1
01650	Calcium	7440-70-2	2,680	6.36	20.7		1
01654	Iron	7439-89-6	20,600	4.88	20.7		1
01656	Lithium	7439-93-2	20.8	0.23	2.1		1
01657	Magnesium	7439-95-4	5,320	2.63	10.4		1
06958	Manganese	7439-96-5	315	0.0809	0.518		1
10145	Phosphorus	7723-14-0	291	0.581	10.4		1
01662	Potassium	7440-09-7	3,150	18.7	51.8		1
01667	Sodium	7440-23-5	123	38.7	104		1
07968	Strontium	7440-24-6	19.0	0.0643	0.518		1
06969	Tin	7440-31-5	3.03 J	1.04	10.4		1
06970	Titanium	7440-32-6	1,340	1.97	5.18		5
10146	Zirconium	7440-67-7	3.16 J	0.871	5.18		1
SW-846 6020							
06124	Antimony	7440-36-0	0.0627 J	0.0604	0.201		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	5.72	0.0604	0.403		2
06126	Barium	7440-39-3	78.1	0.109	0.403		2
06127	Beryllium	7440-41-7	0.606	0.0161	0.101		2
06128	Cadmium	7440-43-9	0.109	0.0362	0.101		2

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Sample Description: SL-058-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5C-SB-3.0-4.0

LLI Sample # SW 6151502
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 09:45 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05834 SDG#: DE024-01

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	
06131	Chromium	7440-47-3	17.6	0.121	0.403		2
06132	Cobalt	7440-48-4	5.53	0.0201	0.101		2
06133	Copper	7440-50-8	6.26	0.0665	0.403		2
06135	Lead	7439-92-1	4.34	0.0105	0.201		2
06138	Molybdenum	7439-98-7	0.439	0.0503	0.101		2
06139	Nickel	7440-02-0	9.51	0.101	0.403		2
06141	Selenium	7782-49-2	0.179 J	0.0403	0.403		2
06142	Silver	7440-22-4	0.0278 J	0.0121	0.101		2
06145	Thallium	7440-28-0	0.260	0.0302	0.101		2
06148	Vanadium	7440-62-2	32.0	0.0222	0.101		2
06149	Zinc	7440-66-6	53.0	0.564	3.02		2
		SW-846 7471A	mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0028 U	0.0028	0.0986		1
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	4.8	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	31.4		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	1.0		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	428	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.	6.94	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	4.5	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-058-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.

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Sample Description: SL-058-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5C-SB-3.0-4.0

LLI Sample # SW 6151502
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 09:45 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05834 SDG#: DE024-01

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	B103341AA	11/30/2010 18:00	Chelsea B Eastep	1.03
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 15:51	Jason M Long	25.05
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033423137	11/30/2010 16:46	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:29	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033423137	11/30/2010 17:29	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033423137	11/30/2010 16:44	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10335SLF026	12/10/2010 07:52	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10335SLE026	12/07/2010 02:10	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
06557	6a Perchlorate EPA 6850	SW-846 6850 1/2007	1	103420019A	12/09/2010 16:14	Richard A Shober	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103340014A	12/06/2010 15:00	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103340014A	12/01/2010 09:45	Kerrie A Freeburn	1
06568	Perchlorate Soil Prep	SW-846 6850 1/2007	1	103420019A	12/09/2010 09:00	Maria Davenport	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 08:12	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/04/2010 00:39	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 00:39	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/04/2010 00:39	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 00:39	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 00:39	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 00:39	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 00:39	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 00:39	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 00:39	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 00:39	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 00:39	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 08:35	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 00:39	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 14:38	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 14:38	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 14:38	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-058-SA5C-SB-3.0-4.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-058-SA5C-SB-3.0-4.0

LLI Sample # SW 6151502
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 09:45 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05834 SDG#: DE024-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 14:38	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:37	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201B	12/08/2010 19:52	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10343343201A	12/13/2010 15:52	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 21:04	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201B	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10343343201A	12/09/2010 13:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10334182101A	11/30/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10334039403A	11/30/2010 13:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	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-059-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-9.0-10.0

LLI Sample # SW 6151503
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:15 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05991 SDG#: DE024-02

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	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	0.27 U	0.27	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	0.17 U	0.17	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	1.9 J	0.27	4.4		0.92
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.4		0.92

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Sample Description: SL-059-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-9.0-10.0

LLI Sample # SW 6151503
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:15 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05991 SDG#: DE024-02

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	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 U	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	0.18 J	0.17	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	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.8 U	5.8	17		24.32
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	425	19.9	39.8		1
The GC/MS semivolatile internal standard peak areas were outside of the QC limits for both the initial injection and the re-injection due to the matrix of the sample. The values here are from the initial injection of the sample. The calculated surrogate recovery was biased low due to this matrix effect. The internal standard that was impacted is not used to quantify the target compound so no further action was taken.							
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	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

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Sample Description: SL-059-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-9.0-10.0

LLI Sample # SW 6151503
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:15 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05991 SDG#: DE024-02

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	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
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	0.97	J 0.80	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	1.3	J 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	1.9	J 0.40	2.0		1
10138	Dibenz(a,h)anthracene	53-70-3	0.80	U 0.80	2.0		1

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Sample Description: SL-059-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-9.0-10.0

LLI Sample # SW 6151503
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:15 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05991 SDG#: DE024-02

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							
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
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	1.1 J	0.80	2.0		1
10138	Pyrene	129-00-0	0.80 U	0.80	2.0		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.1		23.76
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

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Sample Description: SL-059-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-9.0-10.0

LLI Sample # SW 6151503
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:15 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05991 SDG#: DE024-02

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	Tetryl	479-45-8	91	U 91	180	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	60	U 60	180	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	60	U 60	180	10000000	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		1
10199	EFH (C15-C20)	n.a.	0.48	U 0.48	1.4		1
10199	EFH (C21-C30)	n.a.	4.1	0.48	1.4		1
10199	EFH (C30 - C40)	n.a.	25	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	120	U 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
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

*=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-059-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-9.0-10.0

LLI Sample # SW 6151503
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:15 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05991 SDG#: DE024-02

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	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
Misc. Organics		SW-846 8315A modified	ng/g		ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.4	U	2.4	6.0		1
10346	Hydrazine	302-01-2	0.60	U	0.60	2.4		1
10346	Methylhydrazine	60-34-4	2.4	U	2.4	6.0		1
Metals		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	38,600		5.95	23.7		1
07914	Boron	7440-42-8	10.1		1.05	5.91		1
01650	Calcium	7440-70-2	4,300		7.25	23.7		1
01654	Iron	7439-89-6	31,100		27.9	118		5
01656	Lithium	7439-93-2	23.4		0.26	2.4		1
01657	Magnesium	7439-95-4	6,510		3.00	11.8		1
06958	Manganese	7439-96-5	166		0.0923	0.591		1
10145	Phosphorus	7723-14-0	147		0.662	11.8		1
01662	Potassium	7440-09-7	2,480		21.3	59.1		1
01667	Sodium	7440-23-5	239		44.1	118		1
07968	Strontium	7440-24-6	45.4		0.0733	0.591		1
06969	Tin	7440-31-5	3.42	J	1.18	11.8		1
06970	Titanium	7440-32-6	1,250		2.25	5.91		5
10146	Zirconium	7440-67-7	7.01		0.994	5.91		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.104	J	0.0696	0.232		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	7.63		0.0696	0.464		2
06126	Barium	7440-39-3	187		0.125	0.464		2
06127	Beryllium	7440-41-7	1.04		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.0845	J	0.0418	0.116		2
06131	Chromium	7440-47-3	36.6		0.139	0.464		2
06132	Cobalt	7440-48-4	7.08		0.0232	0.116		2
06133	Copper	7440-50-8	11.2		0.0766	0.464		2
06135	Lead	7439-92-1	8.98		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.404		0.0580	0.116		2
06139	Nickel	7440-02-0	16.4		0.116	0.464		2
06141	Selenium	7782-49-2	0.105	J	0.0464	0.464		2
06142	Silver	7440-22-4	0.0643	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.368		0.0348	0.116		2
06148	Vanadium	7440-62-2	66.5		0.0255	0.116		2
06149	Zinc	7440-66-6	63.4		0.650	3.48		2
		SW-846 7471A	mg/kg		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0153	J	0.0034	0.117		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-059-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-9.0-10.0

LLI Sample # SW 6151503
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:15 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05991 SDG#: DE024-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	7.0	0.96	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	3.0	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	35.8		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.45 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	0.21 U	0.21	0.58		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	483	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.	7.62	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	16.3	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
The volatile analysis was performed on soil from SL-059-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	B103341AA	11/30/2010 18:22	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 16:11	Jason M Long	24.32
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:05	Lois E Hiltz	n.a.

*=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-059-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-9.0-10.0

LLI Sample # SW 6151503
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:15 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05991 SDG#: DE024-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033423137	11/30/2010 17:30	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033423137	11/30/2010 17:02	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 05:48	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10335SLF026	12/10/2010 09:07	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10335SLE026	12/07/2010 02:43	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10336A34A	12/02/2010 16:58	Marie D John	23.76
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:01	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 09:45	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103350004A	12/02/2010 19:25	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103340014A	12/06/2010 15:19	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103340014A	12/01/2010 09:45	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103350004A	12/01/2010 14:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103350018A	12/07/2010 04:58	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103340018A	12/01/2010 11:11	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 23:08	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103370023A	12/07/2010 07:00	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103350018A	12/01/2010 21:30	Karen L Beyer	1
10303	Terphenyls soil prep	SW-846 3550B	1	103370023A	12/04/2010 10:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103340018A	12/01/2010 10:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10336001	12/02/2010 23:41	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 09:03	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/04/2010 01:03	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 01:03	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/07/2010 09:07	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 01:03	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 01:03	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 01:03	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 01:03	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 01:03	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 01:03	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 01:03	John W Yanzuk II	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-059-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-9.0-10.0

LLI Sample # SW 6151503
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:15 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05991 SDG#: DE024-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 01:03	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 09:07	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 01:03	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 14:57	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 14:57	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 14:57	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 14:57	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:42	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201B	12/08/2010 20:06	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201B	12/08/2010 20:06	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10343343201A	12/13/2010 17:04	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 21:16	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10340102201A	12/06/2010 19:30	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201B	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10343343201A	12/09/2010 13:55	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10340102201A	12/06/2010 16:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10334182101A	11/30/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10334039403A	11/30/2010 13:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	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

Page 1 of 9

Sample Description: SL-059-SA5C-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-1.0-2.0

LLI Sample # SW 6151504
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:10 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05912 SDG#: DE024-03

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	57	6.4	7.7		0.87
06192	Benzene	71-43-2	0.1 U	0.1	3.9		0.87
06192	Bromobenzene	108-86-1	0.13 U	0.13	3.9		0.87
06192	Bromochloromethane	74-97-5	0.32 U	0.32	3.9		0.87
06192	Bromodichloromethane	75-27-4	0.08 U	0.08	3.9		0.87
06192	Bromoform	75-25-2	0.39 U	0.39	3.9		0.87
06192	Bromomethane	74-83-9	0.24 U	0.24	3.9		0.87
06192	2-Butanone	78-93-3	8.4	1.2	7.7		0.87
06192	n-Butylbenzene	104-51-8	0.12 U	0.12	3.9		0.87
06192	sec-Butylbenzene	135-98-8	0.06 U	0.06	3.9		0.87
06192	tert-Butylbenzene	98-06-6	0.15 U	0.15	3.9		0.87
06192	Carbon Tetrachloride	56-23-5	0.13 U	0.13	3.9		0.87
06192	Chlorobenzene	108-90-7	0.11 U	0.11	3.9		0.87
06192	Chloroethane	75-00-3	0.13 U	0.13	3.9		0.87
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.29 U	0.29	3.9		0.87
06192	Chloroform	67-66-3	0.12 U	0.12	3.9		0.87
06192	Chloromethane	74-87-3	0.32 U	0.32	3.9		0.87
06192	2-Chlorotoluene	95-49-8	0.13 U	0.13	3.9		0.87
06192	4-Chlorotoluene	106-43-4	0.13 U	0.13	3.9		0.87
06192	Chlorotrifluoroethene	79-38-9	0.48 U	0.48	4.8		0.87
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.67 U	0.67	3.9		0.87
06192	Dibromochloromethane	124-48-1	0.19 U	0.19	3.9		0.87
06192	1,2-Dibromoethane	106-93-4	0.16 U	0.16	3.9		0.87
06192	Dibromomethane	74-95-3	0.23 U	0.23	3.9		0.87
06192	1,2-Dichlorobenzene	95-50-1	0.09 U	0.09	3.9		0.87
06192	1,3-Dichlorobenzene	541-73-1	0.12 U	0.12	3.9		0.87
06192	1,4-Dichlorobenzene	106-46-7	0.15 U	0.15	3.9		0.87
06192	Dichlorodifluoromethane	75-71-8	0.12 U	0.12	3.9		0.87
06192	1,1-Dichloroethane	75-34-3	0.1 U	0.1	3.9		0.87
06192	1,2-Dichloroethane	107-06-2	0.14 U	0.14	3.9		0.87
06192	1,1-Dichloroethene	75-35-4	0.38 U	0.38	3.9		0.87
06192	cis-1,2-Dichloroethene	156-59-2	0.18 U	0.18	3.9		0.87
06192	trans-1,2-Dichloroethene	156-60-5	0.12 U	0.12	3.9		0.87
06192	1,2-Dichloropropane	78-87-5	0.16 U	0.16	3.9		0.87
06192	1,3-Dichloropropane	142-28-9	0.08 U	0.08	3.9		0.87
06192	2,2-Dichloropropane	594-20-7	0.16 U	0.16	3.9		0.87
06192	1,1-Dichloropropene	563-58-6	0.13 U	0.13	3.9		0.87
06192	cis-1,3-Dichloropropene	10061-01-5	0.15 U	0.15	3.9		0.87
06192	trans-1,3-Dichloropropene	10061-02-6	0.16 U	0.16	3.9		0.87
06192	Ethylbenzene	100-41-4	0.06 U	0.06	3.9		0.87
06192	Freon 113	76-13-1	0.11 U	0.11	3.9		0.87
06192	Freon 133a	75-88-7	0.48 U	0.48	4.8		0.87
06192	Hexachlorobutadiene	87-68-3	0.13 U	0.13	3.9		0.87
06192	2-Hexanone	591-78-6	1.5 U	1.5	7.7		0.87
06192	Isopropylbenzene	98-82-8	0.06 U	0.06	3.9		0.87
06192	p-Isopropyltoluene	99-87-6	0.11 U	0.11	3.9		0.87
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.20 U	0.20	3.9		0.87
06192	4-Methyl-2-pentanone	108-10-1	0.38 U	0.38	7.7		0.87
06192	Methylene Chloride	75-09-2	0.70 J	0.23	3.9		0.87
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	3.9		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-059-SA5C-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-1.0-2.0

LLI Sample # SW 6151504
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:10 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05912 SDG#: DE024-03

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	3.9		0.87
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.11 U	0.11	3.9		0.87
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.22 U	0.22	3.9		0.87
06192	Tetrachloroethene	127-18-4	0.19 U	0.19	3.9		0.87
06192	Toluene	108-88-3	0.08 U	0.08	3.9		0.87
06192	1,2,3-Trichlorobenzene	87-61-6	0.13 U	0.13	3.9		0.87
06192	1,2,4-Trichlorobenzene	120-82-1	0.17 U	0.17	3.9		0.87
06192	1,1,1-Trichloroethane	71-55-6	0.19 U	0.19	3.9		0.87
06192	1,1,2-Trichloroethane	79-00-5	0.26 U	0.26	3.9		0.87
06192	Trichloroethene	79-01-6	0.14 U	0.14	3.9		0.87
06192	Trichlorofluoromethane	75-69-4	0.28 U	0.28	3.9		0.87
06192	1,2,3-Trichloropropane	96-18-4	0.32 U	0.32	3.9		0.87
06192	1,2,4-Trimethylbenzene	95-63-6	0.39 U	0.39	3.9		0.87
06192	1,3,5-Trimethylbenzene	108-67-8	0.1 U	0.1	3.9		0.87
06192	Vinyl Chloride	75-01-4	0.19 U	0.19	3.9		0.87
06192	m+p-Xylene	179601-23-1	0.16 U	0.16	3.9		0.87
06192	o-Xylene	95-47-6	0.16 U	0.16	3.9		0.87
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		21.78
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	157	18.4	36.8		1
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

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Sample Description: SL-059-SA5C-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-1.0-2.0

LLI Sample # SW 6151504
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:10 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05912 SDG#: DE024-03

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	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	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	0.74	U 0.74	1.8		1
10138	Benzo(a)pyrene	50-32-8	1.4	J 0.74	1.8		1
10138	Benzo(b)fluoranthene	205-99-2	2.0	0.74	1.8		1
10138	Benzo(g,h,i)perylene	191-24-2	0.92	J 0.74	1.8		1
10138	Benzo(k)fluoranthene	207-08-9	1.6	J 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	3.0	U 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	0.74	U 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	0.74	U 0.74	1.8		1

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Sample Description: SL-059-SA5C-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-1.0-2.0

LLI Sample # SW 6151504
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:10 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05912 SDG#: DE024-03

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							
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
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	1.8 J	0.74	1.8		1
10138	Pyrene	129-00-0	0.95 J	0.74	1.8		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.0		23.72
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	83	U 83	170	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	55	U 55	170	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110	U 110	330	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110	U 110	330	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	55	U 55	170	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	55	U 55	170	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	55	U 55	170	1000000 0	1
10132	HMX	2691-41-0	140	U 140	410	1000000 0	1
10132	Nitrobenzene	98-95-3	55	U 55	170	1000000 0	1
10132	Nitroglycerin	55-63-0	1,100	U 1,100	3,300	1000000 0	1
10132	2-Nitrotoluene	88-72-2	110	U 110	170	1000000 0	1
10132	3-Nitrotoluene	99-08-1	140	U 140	170	1000000 0	1
10132	4-Nitrotoluene	99-99-0	110	U 110	170	1000000 0	1
10132	PETN	78-11-5	1,100	U 1,100	3,300	1000000 0	1
10132	RDX	121-82-4	200	U 200	200	1000000 0	1
10132	Tetryl	479-45-8	84	U 84	170	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	55	U 55	170	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	55	U 55	170	1000000 0	1

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Sample Description: SL-059-SA5C-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-1.0-2.0

LLI Sample # SW 6151504
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:10 by PH

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05912 SDG#: DE024-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Reporting limits were raised due to interference from the sample matrix.							
HPLC Organics		SW-846 8315A	ug/kg	ug/kg	ug/kg	ug/kg	
04173	17a Formaldehyde by 8315A	50-00-0	10,000	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	1.7 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	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	1.5 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.	1.1 J	0.44	1.3		1
10199	EFH (C21-C30)	n.a.	13	0.44	1.3		1
10199	EFH (C30 - C40)	n.a.	61	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	150 J	110	550		1
10501	Isopropanol	67-63-0	110 U	110	550		1
10501	Methanol	67-56-1	530 J	110	550		1
The LCS recovery for ethanol is outside the QC limits. The LCS recovery from the reextraction is also outside the QC limits. Similar results were obtained in both extracts. The results are reported from the original extraction.							
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

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Sample Description: SL-059-SA5C-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-1.0-2.0

LLI Sample # SW 6151504
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:10 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05912 SDG#: DE024-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Misc. Organics							
	SW-846 8315A modified		ng/g	ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.2 U	2.2	5.5		1
10346	Hydrazine	302-01-2	0.55 U	0.55	2.2		1
10346	Methylhydrazine	60-34-4	2.2 U	2.2	5.5		1
Metals							
	SW-846 6010B		mg/kg	mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	21,300	5.44	21.6		1
07914	Boron	7440-42-8	20.2	0.962	5.40		1
01650	Calcium	7440-70-2	2,970	6.63	21.6		1
01654	Iron	7439-89-6	23,500	5.09	21.6		1
01656	Lithium	7439-93-2	25.1	0.24	2.2		1
01657	Magnesium	7439-95-4	5,120	2.75	10.8		1
06958	Manganese	7439-96-5	298	0.0843	0.540		1
10145	Phosphorus	7723-14-0	363	0.605	10.8		1
01662	Potassium	7440-09-7	3,040	19.5	54.0		1
01667	Sodium	7440-23-5	171	40.3	108		1
07968	Strontium	7440-24-6	25.8	0.0670	0.540		1
06969	Tin	7440-31-5	2.93 J	1.08	10.8		1
06970	Titanium	7440-32-6	1,200	2.05	5.40		5
10146	Zirconium	7440-67-7	4.87 J	0.908	5.40		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0852 J	0.0649	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	7.04	0.0649	0.432		2
06126	Barium	7440-39-3	130	0.117	0.432		2
06127	Beryllium	7440-41-7	0.840	0.0173	0.108		2
06128	Cadmium	7440-43-9	0.282	0.0389	0.108		2
06131	Chromium	7440-47-3	28.9	0.130	0.432		2
06132	Cobalt	7440-48-4	7.83	0.0216	0.108		2
06133	Copper	7440-50-8	12.4	0.0713	0.432		2
06135	Lead	7439-92-1	7.33	0.0112	0.216		2
06138	Molybdenum	7439-98-7	0.666	0.0540	0.108		2
06139	Nickel	7440-02-0	19.5	0.108	0.432		2
06141	Selenium	7782-49-2	0.211 J	0.0432	0.432		2
06142	Silver	7440-22-4	0.0587 J	0.0130	0.108		2
06145	Thallium	7440-28-0	0.320	0.0324	0.108		2
06148	Vanadium	7440-62-2	49.7	0.0238	0.108		2
06149	Zinc	7440-66-6	75.8	0.605	3.24		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0031 U	0.0031	0.107		1
Wet Chemistry							
	EPA 300.0		mg/kg	mg/kg	mg/kg	mg/kg	
07332	11a Anions by 300.0 - Fluoride	16984-48-8	2.9	0.88	1.1		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	2.5	0.88	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.

Sample Description: SL-059-SA5C-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-1.0-2.0

LLI Sample # SW 6151504
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:10 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05912 SDG#: DE024-03

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			ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	9.9 U	9.9	33.1		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.	436	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 Total Solids by 160.3	n.a.	9.3	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
The volatile analysis was performed on soil from SL-059-SA5C-SB-1.5.

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	B103341AA	11/30/2010 18:45	Chelsea B Eastep	0.87
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 16:31	Jason M Long	21.78
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:10	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033423137	11/30/2010 17:30	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033423137	11/30/2010 17:07	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 06:05	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-059-SA5C-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-1.0-2.0

LLI Sample # SW 6151504
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:10 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05912 SDG#: DE024-03

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	10335SLF026	12/10/2010 09:33	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10335SLE026	12/07/2010 03:15	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10336A34A	12/02/2010 17:35	Marie D John	23.72
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:06	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 10:27	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103350004A	12/02/2010 19:35	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103340014A	12/06/2010 15:37	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103340014A	12/01/2010 09:45	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103350004A	12/01/2010 14:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103350018A	12/07/2010 06:13	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103340018A	12/01/2010 11:55	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 23:24	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103370023A	12/07/2010 10:04	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103350018A	12/01/2010 21:30	Karen L Beyer	1
10303	Terphenyls soil prep	SW-846 3550B	1	103370023A	12/04/2010 10:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103340018A	12/01/2010 10:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10336001	12/03/2010 01:22	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 09:11	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/04/2010 02:03	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 02:03	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/04/2010 02:03	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 02:03	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 02:03	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 02:03	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 02:03	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 02:03	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 02:03	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 02:03	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 02:03	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 09:15	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 02:03	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 15:00	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-059-SA5C-SB-1.0-2.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-059-SA5C-SB-1.0-2.0

LLI Sample # SW 6151504
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 11:10 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

05912 SDG#: DE024-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 15:00	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 15:00	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 15:00	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:43	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201B	12/08/2010 20:20	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10341341201B	12/08/2010 20:20	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10343343201A	12/13/2010 17:28	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 21:29	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10340102201A	12/06/2010 19:31	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201B	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10343343201A	12/09/2010 13:55	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10340102201A	12/06/2010 16:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10334182101A	11/30/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10334039403A	11/30/2010 13:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	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: TB-112910 Water
SSFL Area IV Collocated Soil Sampling
TB-112910

LLI Sample # WW 6151505
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:15

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

TB129 SDG#: DE024-04TB

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

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

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

Sample Description: TB-112910 Water
SSFL Area IV Collocated Soil Sampling
TB-112910

LLI Sample # WW 6151505
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:15

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

TB129 SDG#: DE024-04TB

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	Y103352AA	12/02/2010 00:44	Stephanie A Selis	1
00527	14b 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103351AA	12/01/2010 19:05	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103351AA	12/01/2010 19:05	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103352AA	12/02/2010 00:44	Stephanie A Selis	1
08229	9b TPH by EPA 8015B Gas	TPH GRO SW-8015B	1	10336A20A	12/03/2010 12:01	Tyler O Griffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	10336A20A	12/03/2010 12:01	Tyler O Griffin	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-075-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5C-SB-4.0-5.0

LLI Sample # SW 6151506
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:40 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07545 SDG#: DE024-05

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	7.3 U	7.3	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	0.27 U	0.27	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	0.81 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-075-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5C-SB-4.0-5.0

LLI Sample # SW 6151506
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:40 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07545 SDG#: DE024-05

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	0.11 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 U	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	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.0 U	5.0	15		21.01
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	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
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

*=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-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5C-SB-4.0-5.0

LLI Sample # SW 6151506
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:40 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07545 SDG#: DE024-05

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	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	0.99	J 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	1.2	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	7.5	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
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

*=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-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5C-SB-4.0-5.0

LLI Sample # SW 6151506
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:40 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07545 SDG#: DE024-05

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							
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	1.4 J	0.80	2.0		1
10138	Pyrene	129-00-0	0.80 U	0.80	2.0		1
Pesticides/PCBs SW-846 8082							
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.							
Metals SW-846 6010B							
01643	Aluminum	7429-90-5	35,200	5.83	23.2		1
07914	Boron	7440-42-8	7.90	1.03	5.79		1
01650	Calcium	7440-70-2	5,450	7.10	23.2		1
01654	Iron	7439-89-6	32,700	27.3	116		5
01656	Lithium	7439-93-2	27.2	0.25	2.3		1
01657	Magnesium	7439-95-4	6,880	2.94	11.6		1
06958	Manganese	7439-96-5	418	0.0904	0.579		1
10145	Phosphorus	7723-14-0	188	0.649	11.6		1
01662	Potassium	7440-09-7	3,590	20.9	57.9		1
01667	Sodium	7440-23-5	433	43.2	116		1
07968	Strontium	7440-24-6	43.4	0.0718	0.579		1
06969	Tin	7440-31-5	2.99 J	1.16	11.6		1
06970	Titanium	7440-32-6	1,300	2.20	5.79		5
10146	Zirconium	7440-67-7	7.24	0.973	5.79		1
SW-846 6020							
06124	Antimony	7440-36-0	0.123 J	0.0702	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	7.85	0.0702	0.468		2
06126	Barium	7440-39-3	186	0.126	0.468		2
06127	Beryllium	7440-41-7	1.18	0.0187	0.117		2
06128	Cadmium	7440-43-9	0.354	0.0421	0.117		2
06131	Chromium	7440-47-3	43.6	0.140	0.468		2
06132	Cobalt	7440-48-4	11.3	0.0234	0.117		2
06133	Copper	7440-50-8	15.5	0.0772	0.468		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-075-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5C-SB-4.0-5.0

LLI Sample # SW 6151506
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:40 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07545 SDG#: DE024-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Metals		SW-846 6020	mg/kg	mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	9.51	0.0122	0.234		2
06138	Molybdenum	7439-98-7	0.432	0.0585	0.117		2
06139	Nickel	7440-02-0	24.6	0.117	0.468		2
06141	Selenium	7782-49-2	0.179 J	0.0468	0.468		2
06142	Silver	7440-22-4	0.0756 J	0.0140	0.117		2
06145	Thallium	7440-28-0	0.455	0.0351	0.117		2
06148	Vanadium	7440-62-2	82.2	0.0257	0.117		2
06149	Zinc	7440-66-6	87.4	0.655	3.51		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	3.0	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	35.8		1
		SW-846 7199	mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.51 J	0.24	1.2		1
		ASTM D1498	mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	447	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.	7.47	0.0100	0.0100		1
Wet Chemistry		EPA 160.3 modified	%	%	%	%	
11624	28a Total Solids 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-075-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.

Sample Description: SL-075-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5C-SB-4.0-5.0

LLI Sample # SW 6151506
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:40 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07545 SDG#: DE024-05

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	B103341AA	11/30/2010 19:08	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 16:50	Jason M Long	21.01
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:14	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033423137	11/30/2010 17:30	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033423137	11/30/2010 17:11	Lois E Hiltz	n.a.
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10335SLF026	12/10/2010 09:58	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10335SLE026	12/07/2010 03:48	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103340014A	12/06/2010 15:56	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103340014A	12/01/2010 09:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 09:29	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/04/2010 02:07	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 02:07	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/07/2010 09:18	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 02:07	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 02:07	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 02:07	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 02:07	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 02:07	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 02:07	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 02:07	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 02:07	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 09:18	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 02:07	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 15:09	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 15:09	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 15:09	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 15:09	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:44	Nelli S Markaryan	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-075-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5C-SB-4.0-5.0

LLI Sample # SW 6151506
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:40 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07545 SDG#: DE024-05

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	103355708003	12/02/2010 09:06	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10341341201B	12/08/2010 20:34	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10343343201A	12/13/2010 18:16	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 21:42	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10341341201B	12/07/2010 13:50	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10343343201A	12/09/2010 13:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10334182101A	11/30/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10334039403A	11/30/2010 13:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	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-071-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-9.0-10.0

LLI Sample # SW 6151507
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:26 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07191 SDG#: DE024-06

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	7.5 U	7.5	9.0		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	9.0		1
06192	n-Butylbenzene	104-51-8	0.14 U	0.14	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	0.34 U	0.34	4.5		1
06192	Chloroform	67-66-3	0.14 U	0.14	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	0.79 U	0.79	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	0.14 U	0.14	4.5		1
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.5		1
06192	Dichlorodifluoromethane	75-71-8	0.14 U	0.14	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	0.14 U	0.14	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	9.0		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	0.24 U	0.24	4.5		1
06192	4-Methyl-2-pentanone	108-10-1	0.44 U	0.44	9.0		1
06192	Methylene Chloride	75-09-2	2.1 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-071-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-9.0-10.0

LLI Sample # SW 6151507
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:26 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07191 SDG#: DE024-06

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	4.5		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	0.09 U	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	0.33 U	0.33	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	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.9 U	5.9	18		26.26
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	479	18.8	37.6		1
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	560		1
04688	Benzidine	92-87-5	1,300	U 1,300	3,800		1
04688	Benzoic acid	65-85-0	190	U 190	560		1
04688	Benzyl alcohol	100-51-6	190	U 190	560		1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190		1
04688	Carbazole	86-74-8	19	U 19	190		1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190		1
04688	4-Chloroaniline	106-47-8	75	U 75	190		1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190		1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190		1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190		1
04688	2-Chlorophenol	95-57-8	19	U 19	190		1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190		1
04688	Dibenzofuran	132-64-9	19	U 19	190		1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190		1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190		1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190		1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380		1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190		1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190		1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190		1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	560		1
04688	2,4-Dinitrophenol	51-28-5	750	U 750	2,300		1

*=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-071-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-9.0-10.0

LLI Sample # SW 6151507
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:26 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07191 SDG#: DE024-06

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	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
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	0.65	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
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.3	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

*=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-071-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-9.0-10.0

LLI Sample # SW 6151507
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:26 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07191 SDG#: DE024-06

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	0.75 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
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.0		22.89
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	85 U	85	170	10000000	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	56 U	56	170	10000000	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	110 U	110	340	10000000	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	110 U	110	340	10000000	1
10132	1,3-Dinitrobenzene	99-65-0	56 U	56	170	10000000	1
10132	2,4-Dinitrotoluene	121-14-2	56 U	56	170	10000000	1
10132	2,6-Dinitrotoluene	606-20-2	56 U	56	170	10000000	1
10132	HMX	2691-41-0	140 U	140	420	10000000	1
10132	Nitrobenzene	98-95-3	56 U	56	170	10000000	1
10132	Nitroglycerin	55-63-0	1,100 U	1,100	3,400	10000000	1
10132	2-Nitrotoluene	88-72-2	110 U	110	170	10000000	1
10132	3-Nitrotoluene	99-08-1	140 U	140	170	10000000	1
10132	4-Nitrotoluene	99-99-0	110 U	110	170	10000000	1
10132	PETN	78-11-5	1,100 U	1,100	3,400	10000000	1
10132	RDX	121-82-4	70 U	70	170	10000000	1
10132	Tetryl	479-45-8	86 U	86	170	10000000	1
10132	1,3,5-Trinitrobenzene	99-35-4	56 U	56	170	10000000	1
10132	2,4,6-Trinitrotoluene	118-96-7	56 U	56	170	10000000	1

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

Sample Description: SL-071-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-9.0-10.0

LLI Sample # SW 6151507
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:26 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07191 SDG#: DE024-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		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	0.37 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.							
GC Extractable TPH							
		SW-846 8015B modified	mg/kg	mg/kg	mg/kg	mg/kg	
10199	EFH (C12-C14)	n.a.	0.90 U	0.90	2.7		2
10199	EFH (C15-C20)	n.a.	3.2	0.90	2.7		2
10199	EFH (C21-C30)	n.a.	18	0.90	2.7		2
10199	EFH (C30 - C40)	n.a.	77	0.90	2.7		2
10199	EFH (C8-C11)	n.a.	0.90 U	0.90	2.7		2
GC Miscellaneous							
		SW-846 8015B	ug/kg	ug/kg	ug/kg	ug/kg	
10501	Ethanol	64-17-5	150 J	110	560		1
10501	Isopropanol	67-63-0	110 U	110	560		1
10501	Methanol	67-56-1	110 U	110	560		1
The LCS recovery for ethanol is outside the QC limits. The LCS recovery from the reextraction is also outside the QC limits. Similar results were obtained in both extracts. The results are reported from the original extraction.							
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
Misc. Organics							
		SW-846 8315A modified	ng/g	ng/g	ng/g	ng/g	

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Sample Description: SL-071-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-9.0-10.0

LLI Sample # SW 6151507
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:26 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07191 SDG#: DE024-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Misc. Organics		SW-846 8315A modified	ng/g		ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.3	U	2.3	5.6		1
10346	Hydrazine	302-01-2	0.56	U	0.56	2.3		1
10346	Methylhydrazine	60-34-4	2.3	U	2.3	5.6		1
Metals		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	29,900		5.61	22.3		1
07914	Boron	7440-42-8	17.3	J	4.97	27.9		5
Reporting limits were raised due to interference from the sample matrix.								
01650	Calcium	7440-70-2	36,200		6.84	22.3		1
01654	Iron	7439-89-6	45,300		26.3	112		5
01656	Lithium	7439-93-2	45.2		0.25	2.2		1
01657	Magnesium	7439-95-4	10,000		2.84	11.2		1
06958	Manganese	7439-96-5	321		0.0871	0.558		1
10145	Phosphorus	7723-14-0	508		0.625	11.2		1
01662	Potassium	7440-09-7	2,450		20.1	55.8		1
01667	Sodium	7440-23-5	777		41.6	112		1
07968	Strontium	7440-24-6	71.5		0.0692	0.558		1
06969	Tin	7440-31-5	3.64	J	1.12	11.2		1
06970	Titanium	7440-32-6	1,290		2.12	5.58		5
10146	Zirconium	7440-67-7	6.73		0.938	5.58		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.146	J	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	11.7		0.0670	0.446		2
06126	Barium	7440-39-3	153		0.121	0.446		2
06127	Beryllium	7440-41-7	1.60		0.0179	0.112		2
06128	Cadmium	7440-43-9	0.153		0.0402	0.112		2
06131	Chromium	7440-47-3	42.5		0.134	0.446		2
06132	Cobalt	7440-48-4	11.3		0.0223	0.112		2
06133	Copper	7440-50-8	20.2		0.0737	0.446		2
06135	Lead	7439-92-1	10.0		0.0116	0.223		2
06138	Molybdenum	7439-98-7	0.222		0.0558	0.112		2
06139	Nickel	7440-02-0	24.9		0.112	0.446		2
06141	Selenium	7782-49-2	0.111	J	0.0446	0.446		2
06142	Silver	7440-22-4	0.0514	J	0.0134	0.112		2
06145	Thallium	7440-28-0	0.373		0.0335	0.112		2
06148	Vanadium	7440-62-2	72.1		0.0246	0.112		2
06149	Zinc	7440-66-6	95.3		0.625	3.35		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	14.1		0.90	1.1		1

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Sample Description: SL-071-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-9.0-10.0

LLI Sample # SW 6151507
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:26 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07191 SDG#: DE024-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 300.0							
07336	11a Anions by 300.0 - Nitrate	14797-55-8	7.4	0.90	1.7	mg/kg	1
EPA 314.0							
10147	7a Perchlorate EPA 314.0	14797-73-0	10.1 U	10.1	33.8	ug/kg	1
SW-846 7199							
05892	3a Cr VI by EPA 7199	18540-29-9	0.23 U	0.23	1.1	mg/kg	1
SW-846 9012B							
05895	21a Cyanide by 9012B	57-12-5	0.20 U	0.20	0.56	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.	8.30	0.0100	0.0100	Std. Units	1
Wet Chemistry EPA 160.3 modified							
11624	28a Total Solids by 160.3	n.a.	11.3	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
The volatile analysis was performed on soil from SL-071-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	B103341AA	11/30/2010 19:30	Chelsea B Eastep	1
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 17:10	Jason M Long	26.26
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:19	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:30	Lois E Hiltz	n.a.

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Sample Description: SL-071-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-9.0-10.0

LLI Sample # SW 6151507
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:26 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07191 SDG#: DE024-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033423137	11/30/2010 17:30	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033423137	11/30/2010 17:17	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 06:22	Timothy J Trees	1
04688	5a Semivolatiles by EPA 8270C	SW-846 8270C	1	10335SLF026	12/10/2010 10:24	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10335SLE026	12/07/2010 04:21	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10336A34A	12/02/2010 18:11	Marie D John	22.89
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:16	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 11:10	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103350004A	12/02/2010 19:44	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103340014A	12/06/2010 16:14	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103340014A	12/01/2010 09:45	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103350004A	12/01/2010 14:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103350018A	12/08/2010 06:00	Heather E Williams	2
10501	25a Alcohols by 8015B	SW-846 8015B	1	103340018A	12/01/2010 12:09	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 23:40	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103370023A	12/07/2010 12:22	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103350018A	12/01/2010 21:30	Karen L Beyer	1
10303	Terphenyls soil prep	SW-846 3550B	1	103370023A	12/04/2010 10:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103340018A	12/01/2010 10:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10336001	12/03/2010 01:43	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 09:33	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/07/2010 09:37	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 02:11	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/07/2010 09:37	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 02:11	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 02:11	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 02:11	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 02:11	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 02:11	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 02:11	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 02:11	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 02:11	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 09:37	Joanne M Gates	5

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Sample Description: SL-071-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-9.0-10.0

LLI Sample # SW 6151507
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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07191 SDG#: DE024-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 02:11	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 15:12	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 15:12	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 15:12	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 15:12	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:45	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10342342202A	12/10/2010 03:33	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10342342202A	12/10/2010 03:33	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10343343201A	12/13/2010 18:40	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 21:55	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10340102201A	12/06/2010 19:33	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10342342202A	12/08/2010 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10343343201A	12/09/2010 13:55	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10340102201A	12/06/2010 16:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10334182101A	11/30/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10334039403A	11/30/2010 13:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	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-075-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5C-SB-9.0-10.0

LLI Sample # SW 6151508
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:45 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07591 SDG#: DE024-07

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	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-075-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5C-SB-9.0-10.0

LLI Sample # SW 6151508
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:45 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07591 SDG#: DE024-07

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	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	0.78 U	0.78	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	0.78 U	0.78	1.9		1
10138	Benzo(a)pyrene	50-32-8	0.78 U	0.78	1.9		1
10138	Benzo(b)fluoranthene	205-99-2	0.78 U	0.78	1.9		1
10138	Benzo(g,h,i)perylene	191-24-2	0.78 U	0.78	1.9		1
10138	Benzo(k)fluoranthene	207-08-9	0.78 U	0.78	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	Chrysene	218-01-9	0.45 J	0.39	1.9		1
10138	Dibenz(a,h)anthracene	53-70-3	0.78 U	0.78	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	7.5 J	7.0	21		1
10138	Fluoranthene	206-44-0	0.78 U	0.78	1.9		1
10138	Fluorene	86-73-7	0.78 U	0.78	1.9		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.78 U	0.78	1.9		1
10138	1-Methylnaphthalene	90-12-0	0.78 U	0.78	1.9		1
10138	2-Methylnaphthalene	91-57-6	0.78 U	0.78	1.9		1
10138	Naphthalene	91-20-3	0.78 U	0.78	1.9		1
10138	N-Nitrosodimethylamine	62-75-9	0.78 U	0.78	1.9		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	1.9		1
10138	Pyrene	129-00-0	0.78 U	0.78	1.9		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	0.61 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	29,800	5.74	22.8		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-075-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5C-SB-9.0-10.0

LLI Sample # SW 6151508
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:45 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07591 SDG#: DE024-07

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	5.36 J	1.02	5.71		1
01650	Calcium	7440-70-2	45,600	7.00	22.8		1
01654	Iron	7439-89-6	28,900	5.38	22.8		1
01656	Lithium	7439-93-2	28.9	0.25	2.3		1
01657	Magnesium	7439-95-4	6,330	2.90	11.4		1
06958	Manganese	7439-96-5	414	0.0890	0.571		1
10145	Phosphorus	7723-14-0	213	0.639	11.4		1
01662	Potassium	7440-09-7	2,950	20.5	57.1		1
01667	Sodium	7440-23-5	622	42.6	114		1
07968	Strontium	7440-24-6	68.6	0.0708	0.571		1
06969	Tin	7440-31-5	2.85 J	1.14	11.4		1
06970	Titanium	7440-32-6	1,400	2.17	5.71		5
10146	Zirconium	7440-67-7	6.28	0.959	5.71		1
	SW-846 6020		mg/kg	mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0929 J	0.0692	0.231		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	8.91	0.0692	0.461		2
06126	Barium	7440-39-3	187	0.124	0.461		2
06127	Beryllium	7440-41-7	1.10	0.0184	0.115		2
06128	Cadmium	7440-43-9	0.430	0.0415	0.115		2
06131	Chromium	7440-47-3	41.4	0.138	0.461		2
06132	Cobalt	7440-48-4	9.53	0.0231	0.115		2
06133	Copper	7440-50-8	16.3	0.0761	0.461		2
06135	Lead	7439-92-1	6.76	0.0120	0.231		2
06138	Molybdenum	7439-98-7	0.267	0.0576	0.115		2
06139	Nickel	7440-02-0	22.9	0.115	0.461		2
06141	Selenium	7782-49-2	0.0516 J	0.0461	0.461		2
06142	Silver	7440-22-4	0.104 J	0.0138	0.115		2
06145	Thallium	7440-28-0	0.408	0.0346	0.115		2
06148	Vanadium	7440-62-2	76.2	0.0254	0.115		2
06149	Zinc	7440-66-6	87.6	0.645	3.46		2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0050 J	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	10.9	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	34.9		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	1.2		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: SL-075-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5C-SB-9.0-10.0

LLI Sample # SW 6151508
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:45 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07591 SDG#: DE024-07

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.	444	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 Total Solids by 160.3	n.a.	14.1	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	10335SLF026	12/10/2010 10:49	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10335SLE026	12/07/2010 04:54	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103340014A	12/06/2010 16:33	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103340014A	12/01/2010 09:45	Kerrie A Freeburn	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 09:44	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/04/2010 02:15	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 02:15	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/04/2010 02:15	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 02:15	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 02:15	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 02:15	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 02:15	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 02:15	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 02:15	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 02:15	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 02:15	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 09:48	Joanne M Gates	5

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

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Sample Description: SL-075-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-075-SA5C-SB-9.0-10.0

LLI Sample # SW 6151508
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 15:45 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07591 SDG#: DE024-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 02:15	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 15:15	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 15:15	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 15:15	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 15:15	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:50	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10342342202A	12/10/2010 04:46	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10343343201A	12/13/2010 19:04	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	1	10347243201A	12/15/2010 22:08	Nicole M Kepley	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10342342202A	12/08/2010 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10343343201A	12/09/2010 13:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10334182101A	11/30/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10334039403A	11/30/2010 13:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	1	10334162401A	12/01/2010 05:16	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-071-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-4.0-5.0

LLI Sample # SW 6151509
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:22 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07145 SDG#: DE024-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.4 U	7.4	8.9		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	0.37 U	0.37	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	1.4 U	1.4	8.9		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	0.16 U	0.16	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	0.37 U	0.37	4.4		0.92
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.4		0.92
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.4		0.92
06192	Chlorotrifluoroethene	79-38-9	0.56 U	0.56	5.6		0.92
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.78 U	0.78	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	0.27 U	0.27	4.4		0.92
06192	1,2-Dichlorobenzene	95-50-1	0.10 U	0.10	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	0.17 U	0.17	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	0.56 U	0.56	5.6		0.92
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.4		0.92
06192	2-Hexanone	591-78-6	1.8 U	1.8	8.9		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	8.9		0.92
06192	Methylene Chloride	75-09-2	0.86 J	0.27	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-071-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-4.0-5.0

LLI Sample # SW 6151509
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:22 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07145 SDG#: DE024-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.4		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	0.26 U	0.26	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 U	0.09	4.4		0.92
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	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	0.17 U	0.17	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	0.37 U	0.37	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	ug/kg	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.2 U	5.2	15		21.37
GC/MS	Semivolatiles	EPA 1625C	ng/kg	ng/kg	ng/kg	ng/kg	
11622	N-Nitrosodimethylamine	62-75-9	328	20.1	40.3		1
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	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	81	U 81	200		1
04688	bis(2-Chloroethoxy)methane	111-91-1	20	U 20	200		1
04688	bis(2-Chloroethyl)ether	111-44-4	20	U 20	200		1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	20	U 20	200		1
04688	2-Chloronaphthalene	91-58-7	20	U 20	200		1
04688	2-Chlorophenol	95-57-8	20	U 20	200		1
04688	4-Chlorophenyl-phenylether	7005-72-3	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	810	U 810	2,400		1

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Sample Description: SL-071-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-4.0-5.0

LLI Sample # SW 6151509
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:22 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07145 SDG#: DE024-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	ug/kg	
04688	2,4-Dinitrotoluene	121-14-2	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	81	U 81	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	81	U 81	200		1
04688	Nitrobenzene	98-95-3	20	U 20	200		1
04688	2-Nitrophenol	88-75-5	20	U 20	200		1
04688	4-Nitrophenol	100-02-7	200	U 200	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	0.81	U 0.81	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	0.81	U 0.81	2.0		1
10138	Benzo(a)pyrene	50-32-8	0.81	U 0.81	2.0		1
10138	Benzo(b)fluoranthene	205-99-2	0.81	U 0.81	2.0		1
10138	Benzo(g,h,i)perylene	191-24-2	0.81	U 0.81	2.0		1
10138	Benzo(k)fluoranthene	207-08-9	0.81	U 0.81	2.0		1
10138	Butylbenzylphthalate	85-68-7	7.2	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	0.81	U 0.81	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	0.81	U 0.81	2.0		1
10138	Fluorene	86-73-7	0.81	U 0.81	2.0		1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.81	U 0.81	2.0		1

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Sample Description: SL-071-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-4.0-5.0

LLI Sample # SW 6151509
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:22 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07145 SDG#: DE024-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM							
10138	1-Methylnaphthalene	90-12-0	0.81 U	0.81	2.0		1
10138	2-Methylnaphthalene	91-57-6	0.81 U	0.81	2.0		1
10138	Naphthalene	91-20-3	0.81 U	0.81	2.0		1
10138	N-Nitrosodimethylamine	62-75-9	0.81 U	0.81	2.0		1
10138	Di-n-octylphthalate	117-84-0	7.2 U	7.2	22		1
10138	Phenanthrene	85-01-8	0.81 U	0.81	2.0		1
10138	Pyrene	129-00-0	0.81 U	0.81	2.0		1
GC Volatiles TPH GRO SW-846 8015B mod							
05551	9a TPH by EPA 8015B Gas	n.a.	0.2 U	0.2	1.1		22.05
Explosives SW-846 8330A							
10132	4-Amino-2,6-Dinitrotoluene	19406-51-0	91 U	91	180	1000000 0	1
10132	2-Amino-4,6-Dinitrotoluene	35572-78-2	60 U	60	180	1000000 0	1
10132	2,6-Diamino-4-nitrotoluene	59229-75-3	120 U	120	360	1000000 0	1
10132	2,4-Diamino-6-nitrotoluene	6629-29-4	120 U	120	360	1000000 0	1
10132	1,3-Dinitrobenzene	99-65-0	60 U	60	180	1000000 0	1
10132	2,4-Dinitrotoluene	121-14-2	60 U	60	180	1000000 0	1
10132	2,6-Dinitrotoluene	606-20-2	60 U	60	180	1000000 0	1
10132	HMX	2691-41-0	150 U	150	450	1000000 0	1
10132	Nitrobenzene	98-95-3	60 U	60	180	1000000 0	1
10132	Nitroglycerin	55-63-0	1,200 U	1,200	3,600	1000000 0	1
10132	2-Nitrotoluene	88-72-2	120 U	120	180	1000000 0	1
10132	3-Nitrotoluene	99-08-1	150 U	150	180	1000000 0	1
10132	4-Nitrotoluene	99-99-0	120 U	120	180	1000000 0	1
10132	PETN	78-11-5	1,200 U	1,200	3,600	1000000 0	1
10132	RDX	121-82-4	75 U	75	180	1000000 0	1
10132	Tetryl	479-45-8	92 U	92	180	1000000 0	1
10132	1,3,5-Trinitrobenzene	99-35-4	60 U	60	180	1000000 0	1
10132	2,4,6-Trinitrotoluene	118-96-7	60 U	60	180	1000000 0	1

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Sample Description: SL-071-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-4.0-5.0

LLI Sample # SW 6151509
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:22 by PH

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14420 Albemarle Point Place
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Submitted: 11/30/2010 09:10

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07145 SDG#: DE024-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
HPLC Organics							
04173	17a Formaldehyde by	8315A	ug/kg	ug/kg	ug/kg	ug/kg	
		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	4.0		1
10225	Aroclor 5442	12642-23-8	1.2 U	1.2	4.0		1
10225	Aroclor 5460	11126-42-4	1.2 U	1.2	4.0		1
10225	PCB-1016	12674-11-2	0.40 U	0.40	2.1		1
10225	PCB-1221	11104-28-2	0.60 U	0.60	2.1		1
10225	PCB-1232	11141-16-5	0.63 U	0.63	2.1		1
10225	PCB-1242	53469-21-9	0.60 U	0.60	2.1		1
10225	PCB-1248	12672-29-6	0.40 U	0.40	2.1		1
10225	PCB-1254	11097-69-1	0.40 U	0.40	2.1		1
10225	PCB-1260	11096-82-5	0.40 U	0.40	2.1		1
10225	PCB-1262	37324-23-5	0.40 U	0.40	2.1		1
10225	PCB-1268	11100-14-4	0.40 U	0.40	2.1		1
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	160 J	120	600		1
10501	Isopropanol	67-63-0	120 U	120	600		1
10501	Methanol	67-56-1	120 U	120	600		1
The LCS recovery for ethanol is outside the QC limits. The LCS recovery from the reextraction is also outside the QC limits. Similar results were obtained in both extracts. The results are reported from the original extraction.							
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
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
Misc. Organics							
		SW-846 8315A modified	ng/g	ng/g	ng/g	ng/g	

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

Sample Description: SL-071-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-4.0-5.0

LLI Sample # SW 6151509
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:22 by PH

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Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07145 SDG#: DE024-08*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Misc. Organics		SW-846 8315A modified	ng/g		ng/g	ng/g	ng/g	
10346	1,1-Dimethylhydrazine	57-14-7	2.4	U	2.4	6.0		1
10346	Hydrazine	302-01-2	0.60	U	0.60	2.4		1
10346	Methylhydrazine	60-34-4	2.4	U	2.4	6.0		1
Metals		SW-846 6010B	mg/kg		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	40,600		5.84	23.2		1
07914	Boron	7440-42-8	5.73	J	1.03	5.81		1
01650	Calcium	7440-70-2	5,120		7.12	23.2		1
01654	Iron	7439-89-6	35,400		27.3	116		5
01656	Lithium	7439-93-2	27.4		0.26	2.3		1
01657	Magnesium	7439-95-4	6,840		2.95	11.6		1
06958	Manganese	7439-96-5	642		0.0906	0.581		1
10145	Phosphorus	7723-14-0	187		0.650	11.6		1
01662	Potassium	7440-09-7	4,000		20.9	58.1		1
01667	Sodium	7440-23-5	313		43.3	116		1
07968	Strontium	7440-24-6	43.0		0.0720	0.581		1
06969	Tin	7440-31-5	3.14	J	1.16	11.6		1
06970	Titanium	7440-32-6	1,340		2.21	5.81		5
10146	Zirconium	7440-67-7	8.14		0.975	5.81		1
		SW-846 6020	mg/kg		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.110	J	0.0697	0.232		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	7.84		0.0697	0.465		2
06126	Barium	7440-39-3	198		0.125	0.465		2
06127	Beryllium	7440-41-7	1.20		0.0186	0.116		2
06128	Cadmium	7440-43-9	0.272		0.0418	0.116		2
06131	Chromium	7440-47-3	44.6		0.139	0.465		2
06132	Cobalt	7440-48-4	8.77		0.0232	0.116		2
06133	Copper	7440-50-8	14.1		0.0766	0.465		2
06135	Lead	7439-92-1	8.36		0.0121	0.232		2
06138	Molybdenum	7439-98-7	0.407		0.0581	0.116		2
06139	Nickel	7440-02-0	22.8		0.116	0.465		2
06141	Selenium	7782-49-2	0.247	J	0.0465	0.465		2
06142	Silver	7440-22-4	0.0835	J	0.0139	0.116		2
06145	Thallium	7440-28-0	0.398		0.0348	0.116		2
06148	Vanadium	7440-62-2	81.8		0.0255	0.116		2
06149	Zinc	7440-66-6	88.1		0.650	3.48		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	3.0		0.97	1.2		1
07336	11a Anions by 300.0 - Nitrate	14797-55-8	11.8		0.97	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-071-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-4.0-5.0

LLI Sample # SW 6151509
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:22 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07145 SDG#: DE024-08*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Action Limit	Dilution Factor
Wet Chemistry EPA 314.0			ug/kg	ug/kg	ug/kg	ug/kg	
10147	7a Perchlorate EPA 314.0	14797-73-0	10.9 U	10.9	36.2		1
SW-846 7199			mg/kg	mg/kg	mg/kg	mg/kg	
05892	3a Cr VI by EPA 7199	18540-29-9	0.60 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	0.21 U	0.21	0.59		1
ASTM D1498			mV	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	451	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.	7.85	0.0100	0.0100		1
Wet Chemistry EPA 160.3 modified			%	%	%	%	
11624	28a Total Solids by 160.3	n.a.	17.2	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-071-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	B103341AA	11/30/2010 19:53	Chelsea B Eastep	0.92
10326	14a 1,4-Dioxane by 8260B SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 17:30	Jason M Long	21.37
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:25	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:30	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033423137	11/30/2010 17:30	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033423137	11/30/2010 17:22	Lois E Hiltz	n.a.
11622	19a NDMA by 1625C	EPA 1625C	1	10340SLA026	12/22/2010 06:39	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-071-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-4.0-5.0

LLI Sample # SW 6151509
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:22 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07145 SDG#: DE024-08*

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	10335SLF026	12/10/2010 11:14	Brian K Graham	1
10138	4a Select SVOC EPA 8270SIM	SW-846 8270C SIM	1	10335SLE026	12/04/2010 04:32	Gregory J Drahovsky	1
11630	NDMA Soil Microwave	SW-846 3546	1	10340SLA026	12/06/2010 14:20	Wanda F Oswald	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
05551	9a TPH by EPA 8015B Gas	TPH GRO SW-846 8015B mod	1	10336A34A	12/02/2010 18:48	Marie D John	22.05
06130	GC - 5 g HL Encore Prep	SW-846 5035	1	201033423137	11/30/2010 17:21	Lois E Hiltz	n.a.
10132	20a Energetics by 8330A	SW-846 8330A	1	103380015A	12/08/2010 11:52	James H Place	1
04173	17a Formaldehyde by 8315A	SW-846 8315A	1	103350004A	12/02/2010 20:03	James H Place	1
10225	8a PCBs/PCTs by 8082	SW-846 8082	1	103340014A	12/06/2010 16:52	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103340014A	12/01/2010 09:45	Kerrie A Freeburn	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	103350004A	12/01/2010 14:00	Denise L Trimby	1
11137	Energetics Extraction	SW-846 8330	1	103380015A	12/06/2010 12:00	Kerrie A Freeburn	1
10199	9a TPH by EPA 8015B Oil/Diesel	SW-846 8015B modified	1	103350018A	12/07/2010 04:33	Heather E Williams	1
10501	25a Alcohols by 8015B	SW-846 8015B	1	103340018A	12/01/2010 12:24	Tyler O Griffin	1
08283	27a Glycols by 8015B	SW-846 8015B modified	1	103350011A	12/01/2010 23:55	Robert Brown	1
10318	26a Terphenyls by 8015B	SW-846 8015B	1	103370023A	12/07/2010 03:11	Heather E Williams	1
11238	EFH Extraction - Soils	SW-846 3550B	1	103350018A	12/01/2010 21:30	Karen L Beyer	1
10303	Terphenyls soil prep	SW-846 3550B	1	103370023A	12/04/2010 10:30	Olivia I Santiago	1
11551	Direct Inj. Solids Glycol Ext.	SW-846 8015B	1	103350011A	12/01/2010 11:00	Dustin A Underkoffler	1
00380	Direct Injection Solids Ext	SW-846 8015B	1	103340018A	12/01/2010 10:00	Dustin A Underkoffler	1
10346	18a Hydrazine by 8315A	SW-846 8315A modified	1	10336001	12/03/2010 02:03	Meng Yu	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 09:52	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/04/2010 02:20	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 02:20	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/07/2010 09:56	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 02:20	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 02:20	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 02:20	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 02:20	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 02:20	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 02:20	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 02:20	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 02:20	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 09:56	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 02:20	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 15:18	Choon Y Tian	2

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

Sample Description: SL-071-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-071-SA5C-SB-4.0-5.0

LLI Sample # SW 6151509
LLI Group # 1223083
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/29/2010 14:22 by PH

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

Submitted: 11/30/2010 09:10

Reported: 12/29/2010 16:35

07145 SDG#: DE024-08*

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 15:18	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 15:18	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 15:18	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:51	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	11a Anions by 300.0 - Fluoride	EPA 300.0	1	10342342202A	12/10/2010 05:01	Ashley M Adams	1
07336	11a Anions by 300.0 - Nitrate	EPA 300.0	1	10342342202A	12/10/2010 05:01	Ashley M Adams	1
10147	7a Perchlorate EPA 314.0	EPA 314.0	1	10343343201A	12/13/2010 19:29	Carrie E Miller	1
05892	3a Cr VI by EPA 7199	SW-846 7199	2	10347243201A	12/15/2010 22:27	Nicole M Kepley	1
05895	21a Cyanide by 9012B	SW-846 9012B	1	10340102201A	12/06/2010 19:36	Joseph E McKenzie	1
01352	11a Anions by 300.0 - Extract.	EPA 300.0	1	10342342202A	12/08/2010 14:00	Nancy J Shoop	1
10129	7a Perchlorate EPA 314.0 Prep.	EPA 314.0	1	10343343201A	12/09/2010 13:55	Nancy J Shoop	1
05896	Cyanide Solid Distillation	SW-846 9012B	1	10340102201A	12/06/2010 16:35	Carolyn M Mastropietro	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10334182101A	11/30/2010 12:30	Michelle L Lalli	1
00394	22a pH by 9045C	SW-846 9045C modified	1	10334039403A	11/30/2010 13:45	Michelle L Lalli	1
02432	3a Cr VI by EPA 7199 - Ext.	SW-846 3060A	1	10347243201A	12/13/2010 20:00	Daniel S Smith	1
11624	28a Total Solids by 160.3	EPA 160.3 modified	2	10347162401A	12/14/2010 05:05	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: 12/29/10 at 04:35 PM

Group Number: 1223083

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: B103341AA Sample number(s): 6151502-6151504, 6151506-6151507, 6151509									
Acetone	6.7 U	6.7	8.0	ug/kg	114	110	32-209	3	30
Benzene	0.10 U	0.10	4.0	ug/kg	101	94	80-120	8	30
Bromobenzene	0.13 U	0.13	4.0	ug/kg	91	89	79-120	2	30
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	102	97	79-124	4	30
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	98	93	78-120	5	30
Bromoform	0.40 U	0.40	4.0	ug/kg	98	95	70-120	4	30
Bromomethane	0.25 U	0.25	4.0	ug/kg	76	70	32-162	7	30
2-Butanone	1.2 U	1.2	8.0	ug/kg	104	102	46-153	1	30
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	93	86	72-120	7	30
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	93	87	75-120	7	30
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	90	83	75-120	8	30
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	101	90	69-122	11	30
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	94	89	80-120	5	30
Chloroethane	0.13 U	0.13	4.0	ug/kg	78	71	37-154	9	30
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	114	112	43-146	1	30
Chloroform	0.12 U	0.12	4.0	ug/kg	103	94	80-120	8	30
Chloromethane	0.33 U	0.33	4.0	ug/kg	77	74	54-132	4	30
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	91	86	78-120	5	30
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	91	87	79-120	5	30
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	101	96	22-131	5	30
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	94	95	58-120	0	30
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	94	92	77-120	2	30
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	96	94	80-120	3	30
Dibromomethane	0.24 U	0.24	4.0	ug/kg	102	99	80-120	3	30
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	93	90	79-120	3	30
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	90	87	78-120	3	30
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	91	88	79-120	4	30
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	58	51	20-120	13	30
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	100	92	80-120	7	30
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	104	98	71-129	6	30
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	100	90	73-123	11	30
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	100	94	80-120	7	30
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	100	92	79-120	8	30
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	97	92	80-120	5	30
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	94	92	80-120	3	30
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	100	89	72-123	11	30
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	97	88	77-120	9	30
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	93	89	80-120	4	30
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	90	89	77-120	2	30
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	96	89	80-120	8	30
Freon 113	0.11 U	0.11	4.0	ug/kg	99	87	61-126	13	30
Freon 133a	0.50 U	0.50	5.0	ug/kg	93	90	78-120	4	30
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	91	85	57-120	8	30
2-Hexanone	1.6 U	1.6	8.0	ug/kg	74	74	45-155	1	30
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	95	89	76-120	7	30
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	94	87	75-120	8	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: 12/29/10 at 04:35 PM

Group Number: 1223083

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	101	99	74-121	2	30
4-Methyl-2-pentanol	0.39 U	0.39	8.0	ug/kg	82	81	61-134	1	30
Methylene Chloride	0.84 J	0.24	4.0	ug/kg	99	92	76-124	7	30
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	94	88	77-120	7	30
Styrene	0.10 U	0.10	4.0	ug/kg	95	90	76-120	5	30
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	96	90	80-120	6	30
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	92	91	71-123	1	30
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	95	89	77-120	7	30
Toluene	0.08 U	0.08	4.0	ug/kg	95	88	80-120	7	30
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	93	93	64-120	0	30
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	92	90	68-120	2	30
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	104	93	71-125	10	30
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	95	92	80-120	3	30
Trichloroethene	0.15 U	0.15	4.0	ug/kg	99	91	80-120	9	30
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	86	75	58-133	13	30
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	95	94	71-123	1	30
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	93	88	79-120	6	30
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	93	87	78-120	6	30
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	77	69	53-120	11	30
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	96	90	80-120	7	30
o-Xylene	0.17 U	0.17	4.0	ug/kg	93	87	80-120	6	30

Batch number: E103351AA
1,4-Dioxane

Sample number(s): 6151505
0.5 U 0.5 2.0 ug/l

97 60-132

Batch number: E103361AA
1,4-Dioxane

Sample number(s): 6151502-6151504, 6151506-6151507, 6151509
5.0 U 5.0 15 ug/kg

95 101 70-130 6 30

Batch number: Y103352AA

Sample number(s): 6151505

Acetone	6 U	6.	20	ug/l	108	121	49-234	11	30
Benzene	0.5 U	0.5	5	ug/l	98	97	79-120	1	30
Bromobenzene	1 U	1.	5	ug/l	103	103	80-120	0	30
Bromochloromethane	1 U	1.	5	ug/l	95	93	80-120	2	30
Bromodichloromethane	1 U	1.	5	ug/l	92	91	80-120	1	30
Bromoform	1 U	1.	5	ug/l	91	89	61-120	2	30
Bromomethane	1 U	1.	5	ug/l	97	98	44-120	0	30
2-Butanone	3 U	3.	10	ug/l	107	107	66-151	0	30
n-Butylbenzene	1 U	1.	5	ug/l	99	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	100	100	75-123	1	30
Chlorobenzene	0.8 U	0.8	5	ug/l	96	95	80-120	1	30
Chloroethane	1 U	1.	5	ug/l	96	93	49-129	3	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	109	110	56-129	1	30
Chloroform	0.8 U	0.8	5	ug/l	99	98	77-122	1	30
Chloromethane	1 U	1.	5	ug/l	85	84	60-129	1	30
2-Chlorotoluene	1 U	1.	5	ug/l	103	104	80-120	1	30
4-Chlorotoluene	1 U	1.	5	ug/l	98	98	80-120	0	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	96	93	38-136	3	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	113	110	66-120	2	30
Dibromochloromethane	1 U	1.	5	ug/l	92	92	80-120	1	30
1,2-Dibromoethane	1 U	1.	5	ug/l	99	98	80-120	0	30
Dibromomethane	1 U	1.	5	ug/l	94	94	80-120	0	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	97	95	80-120	2	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	100	99	80-120	1	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	98	96	80-120	2	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	73	73	47-120	0	30
1,1-Dichloroethane	1 U	1.	5	ug/l	102	101	79-120	0	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: 12/29/10 at 04:35 PM

Group Number: 1223083

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1 U	1.	5	ug/l	100	99	70-130	1	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	99	99	74-123	0	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	99	80-120	1	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	98	98	80-120	0	30
1,2-Dichloropropane	1 U	1.	5	ug/l	96	96	78-120	0	30
1,3-Dichloropropane	1 U	1.	5	ug/l	100	98	80-120	2	30
2,2-Dichloropropane	1 U	1.	5	ug/l	93	93	77-124	1	30
1,1-Dichloropropene	1 U	1.	5	ug/l	98	99	80-120	1	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	88	87	80-120	1	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	92	92	79-120	1	30
Ethylbenzene	0.8 U	0.8	5	ug/l	100	98	79-120	2	30
Freon 113	2 U	2.	10	ug/l	113	112	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	99	97	77-120	1	30
Hexachlorobutadiene	2 U	2.	5	ug/l	92	96	58-120	3	30
2-Hexanone	3 U	3.	10	ug/l	108	110	65-136	2	30
Isopropylbenzene	1 U	1.	5	ug/l	97	97	77-120	0	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	95	96	76-120	1	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	104	105	70-121	1	30
Methylene Chloride	2 U	2.	5	ug/l	98	94	80-120	4	30
n-Propylbenzene	1 U	1.	5	ug/l	110	110	80-120	0	30
Styrene	1 U	1.	5	ug/l	96	95	80-120	1	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	98	97	80-120	1	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	111	109	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	99	99	79-120	0	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	96	96	65-120	0	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	96	95	67-120	1	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	101	100	75-127	1	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	95	94	80-120	2	30
Trichlorofluoromethane	2 U	2.	5	ug/l	97	98	64-129	1	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	108	110	80-120	1	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	105	105	74-120	0	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	104	103	75-120	1	30
Vinyl Chloride	1 U	1.	5	ug/l	80	82	65-125	2	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	93	80-120	2	30

Batch number: 10335SLE026

Sample number(s): 6151502-6151504, 6151506-6151509

Acenaphthene	0.67 U	0.67	1.7	ug/kg	89		63-120
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	85		60-120
Anthracene	0.33 U	0.33	1.7	ug/kg	88		55-120
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	90		74-120
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	86		58-129
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	102		63-143
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	82		44-138
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	89		66-137
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	90		65-131
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	103		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	79		62-142
Diethylphthalate	6.0 U	6.0	18	ug/kg	94		68-125
Dimethylphthalate	6.0 U	6.0	18	ug/kg	95		70-130
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	101		67-143
Fluoranthene	0.67 U	0.67	1.7	ug/kg	92		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	82		62-141

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:35 PM

Group Number: 1223083

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	79		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	80		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	96		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	88		56-121		
Batch number: 10335SLF026 Sample number(s): 6151502-6151504, 6151506-6151509									
Aniline	170 U	170.	500	ug/kg	73		10-107		
Benzidine	1,200 U	1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U	170.	500	ug/kg	87		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	100		79-117		
Carbazole	17 U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	91		74-119		
4-Chloroaniline	67 U	67.	170	ug/kg	61		10-110		
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	85		70-104		
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	72		68-131		
2-Chloronaphthalene	17 U	17.	170	ug/kg	81		67-127		
2-Chlorophenol	17 U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	99		79-110		
Dibenzofuran	17 U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	84		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	86		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	105		70-130		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	82		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	93		77-111		
Hexachlorobenzene	17 U	17.	170	ug/kg	106		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	90		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	80		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	77		68-105		
Isophorone	17 U	17.	170	ug/kg	84		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	86		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	87		66-117		
2-Nitroaniline	17 U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	85		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	75		56-118		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:35 PM

Group Number: 1223083

<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>
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	78		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	82		58-112		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	94		73-108		
2,4,5-Trichlorophenol	33 U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33 U	33.	170	ug/kg	100		78-111		
Batch number: 10340SLA026	Sample number(s): 6151503-6151504, 6151507, 6151509								
N-Nitrosodimethylamine	16.7 U	16.7	33.3	ng/kg	91		70-130		
Batch number: 10336A20A	Sample number(s): 6151505								
TPH-GRO S.CA water C5-C12	20 U	20.	50	ug/l	100	100	75-135	0	30
Batch number: 10336A34A	Sample number(s): 6151503-6151504, 6151507, 6151509								
9a TPH by EPA 8015B Gas	0.2 U	0.2	1.0	mg/kg	76	85	67-119	11	30
Batch number: 103380015A	Sample number(s): 6151503-6151504, 6151507, 6151509								
4-Amino-2,6-Dinitrotoluene	75 U	75.	150	ug/kg	103		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	65	88	54-134	30	30
2,4-Diamino-6-nitrotoluene	100 U	100.	300	ug/kg	65	88	54-134	30	30
1,3-Dinitrobenzene	50 U	50.	150	ug/kg	106		51-171		
2,4-Dinitrotoluene	50 U	50.	150	ug/kg	104		72-135		
2,6-Dinitrotoluene	50 U	50.	150	ug/kg	104		80-120		
HMX	130 U	130.	380	ug/kg	98		74-130		
Nitrobenzene	50 U	50.	150	ug/kg	105		80-120		
Nitroglycerin	1,000 U	1,000.	3,000	ug/kg	95		80-120		
2-Nitrotoluene	100 U	100.	150	ug/kg	107		78-128		
3-Nitrotoluene	130 U	130.	150	ug/kg	104		73-127		
4-Nitrotoluene	100 U	100.	150	ug/kg	103		80-120		
PETN	1,000 U	1,000.	3,000	ug/kg	105		80-120		
RDX	63 U	63.	150	ug/kg	100		75-131		
Tetryl	77 U	77.	150	ug/kg	109		70-168		
1,3,5-Trinitrobenzene	50 U	50.	150	ug/kg	113		77-137		
2,4,6-Trinitrotoluene	50 U	50.	150	ug/kg	106		80-120		
Batch number: 103350004A	Sample number(s): 6151503-6151504, 6151507, 6151509								
17a Formaldehyde by 8315A	600 U	600.	1,500	ug/kg	102		80-126		
Batch number: 103420019A	Sample number(s): 6151502								
6a Perchlorate EPA 6850	2.1 U	2.1	5.0	ug/kg	96		70-130		
Batch number: 103340014A	Sample number(s): 6151502-6151504, 6151506-6151509								
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	85	73*	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	92		72-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:35 PM

Group Number: 1223083

<u>Analysis Name</u>	<u>Blank Result</u>		<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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	104		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: 103350018A	Sample number(s): 6151503-6151504, 6151507, 6151509									
EFH (C12-C14)	0.40 U		0.40	1.2	mg/kg	93		66-113		
EFH (C15-C20)	0.40 U		0.40	1.2	mg/kg	97		66-113		
EFH (C21-C30)	0.40 U		0.40	1.2	mg/kg	96		66-113		
EFH (C30 - C40)	0.40 U		0.40	1.2	mg/kg	97		66-113		
EFH (C8-C11)	0.40 U		0.40	1.2	mg/kg	76		66-113		
Batch number: 103340018A	Sample number(s): 6151503-6151504, 6151507, 6151509									
Ethanol	100 U		100.	500	ug/kg	122*		75-112		
Isopropanol	100 U		100.	500	ug/kg	122		75-125		
Methanol	100 U		100.	500	ug/kg	122		75-134		
Batch number: 103350011A	Sample number(s): 6151503-6151504, 6151507, 6151509									
Diethylene glycol	5.0 U		5.0	13	mg/kg	97		75-125		
Ethylene glycol	5.0 U		5.0	13	mg/kg	105		75-125		
Propylene glycol	5.0 U		5.0	13	mg/kg	96		75-125		
Batch number: 103370023A	Sample number(s): 6151503-6151504, 6151507, 6151509									
m-Terphenyl	1.5 U		1.5	3.5	mg/kg	98		75-125		
o-Terphenyl	1.5 U		1.5	3.5	mg/kg	101		75-125		
p-Terphenyl	1.5 U		1.5	3.5	mg/kg	95		75-125		
Batch number: 10336001	Sample number(s): 6151503-6151504, 6151507, 6151509									
1,1-Dimethylhydrazine	2.0 U		2.0	5.0	ng/g	97	100	70-130	2	30
Hydrazine	0.50 U		0.50	2.0	ng/g	95	92	70-130	4	30
Methylhydrazine	2.0 U		2.0	5.0	ng/g	104	91	70-130	13	30
Batch number: 103351026003A	Sample number(s): 6151502-6151504, 6151506-6151509									
Antimony	0.0588 U		0.0588	0.196	mg/kg	65		11-208		
Arsenic	0.0588 U		0.0588	0.392	mg/kg	110		80-120		
Beryllium	0.0157 U		0.0157	0.0980	mg/kg	103		82-118		
Cadmium	0.0353 U		0.0353	0.0980	mg/kg	107		82-118		
Chromium	0.118 U		0.118	0.392	mg/kg	107		80-120		
Cobalt	0.0196 U		0.0196	0.0980	mg/kg	104		82-118		
Copper	0.146 J		0.0647	0.392	mg/kg	100		80-120		
Lead	0.0102 U		0.0102	0.196	mg/kg	98		80-120		
Nickel	0.0980 U		0.0980	0.392	mg/kg	108		80-120		
Silver	0.0118 U		0.0118	0.0980	mg/kg	104		66-134		
Thallium	0.0294 U		0.0294	0.0980	mg/kg	108		81-119		
Vanadium	0.0216 U		0.0216	0.0980	mg/kg	93		90-110		
Zinc	0.549 U		0.549	2.94	mg/kg	105		78-122		
Batch number: 103351026003B	Sample number(s): 6151502-6151504, 6151506-6151509									
Selenium	0.0392 U		0.0392	0.392	mg/kg	104		79-122		
Batch number: 103351026003C	Sample number(s): 6151502-6151504, 6151506-6151509									

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:35 PM

Group Number: 1223083

<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>
Molybdenum	0.0490 U	0.0490	0.0980	mg/kg	111		78-122		
Batch number: 103351026003D	Sample number(s): 6151502-6151504, 6151506-6151509								
Barium	0.106 U	0.106	0.392	mg/kg	104		79-121		
Batch number: 103355708003	Sample number(s): 6151502-6151504, 6151506-6151509								
Aluminum	5.29 J	5.03	20.0	mg/kg	97		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	98		78-110		
Calcium	64.4	6.13	20.0	mg/kg	100		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	84		61-110		
Lithium	0.26 J	0.22	2.0	mg/kg	100		80-120		
Magnesium	4.04 J	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	105		81-119		
Phosphorus	1.47 J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	96		78-110		
Sodium	37.3 U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	107		79-121		
Tin	1.72 J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	86		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	104		80-120		
Batch number: 103355711003	Sample number(s): 6151502-6151504, 6151506-6151509								
Mercury	0.0028 U	0.0028	0.0964	mg/kg	102		88-123		
Batch number: 10340102201A	Sample number(s): 6151503-6151504, 6151507, 6151509								
21a Cyanide by 9012B	0.18 U	0.18	0.50	mg/kg	95		90-110		
Batch number: 10341341201B	Sample number(s): 6151502-6151504, 6151506								
11a Anions by 300.0 - Fluoride	0.80 U	0.80	1.0	mg/kg	101		90-110		
11a Anions by 300.0 - Nitrate	0.80 U	0.80	1.5	mg/kg	100		90-110		
Batch number: 10342342202A	Sample number(s): 6151507-6151509								
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		
Batch number: 10343343201A	Sample number(s): 6151502-6151504, 6151506-6151509								
7a Perchlorate EPA 314.0	9.0 U	9.0	30.0	ug/kg	101		85-115		
Batch number: 10347243201A	Sample number(s): 6151502-6151504, 6151506-6151509								
3a Cr VI by EPA 7199	5.0 U	5.0	1.0	mg/kg	99		80-120		
Batch number: 10334039403A	Sample number(s): 6151502-6151504, 6151506-6151509								
22a pH by 9045C					100		95-105		
Batch number: 10334182101A	Sample number(s): 6151502-6151504, 6151506-6151509								
Oxidation Reduction Potential					99		98-102		
Batch number: 10334162401A	Sample number(s): 6151502, 6151506, 6151508								
28a Total Solids by 160.3					100		80-120		
Batch number: 10347162401A	Sample number(s): 6151503-6151504, 6151507, 6151509								
28a Total Solids by 160.3					100		80-120		

Sample Matrix Quality Control

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.

Group Number: 1223083

Reported: 12/29/10 at 04:35 PM

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: B103341AA Sample number(s): 6151502-6151504, 6151506-6151507, 6151509 UNSPK: P150585									
Acetone	117		15-210						
Benzene	104		55-143						
Bromobenzene	94		43-139						
Bromochloromethane	107		60-137						
Bromodichloromethane	101		53-136						
Bromoform	99		38-124						
Bromomethane	78		42-168						
2-Butanone	102		37-163						
n-Butylbenzene	103		30-146						
sec-Butylbenzene	102		33-157						
tert-Butylbenzene	96		41-152						
Carbon Tetrachloride	108		45-153						
Chlorobenzene	99		49-135						
Chloroethane	78		39-152						
2-Chloroethyl Vinyl Ether	109		32-139						
Chloroform	105		61-142						
Chloromethane	85		51-163						
2-Chlorotoluene	97		42-146						
4-Chlorotoluene	96		39-145						
1,2-Dibromo-3-chloropropane	97		30-139						
Dibromochloromethane	97		51-128						
1,2-Dibromoethane	98		54-129						
Dibromomethane	103		57-130						
1,2-Dichlorobenzene	98		36-133						
1,3-Dichlorobenzene	96		34-134						
1,4-Dichlorobenzene	97		35-136						
Dichlorodifluoromethane	62		26-151						
1,1-Dichloroethane	102		63-142						
1,2-Dichloroethane	106		68-131						
1,1-Dichloroethene	107		61-149						
cis-1,2-Dichloroethene	103		60-136						
trans-1,2-Dichloroethene	105		59-142						
1,2-Dichloropropane	100		62-135						
1,3-Dichloropropane	98		58-129						
2,2-Dichloropropane	103		53-147						
1,1-Dichloropropene	105		54-145						
cis-1,3-Dichloropropene	94		51-131						
trans-1,3-Dichloropropene	93		49-129						
Ethylbenzene	101		44-141						
Freon 113	110		56-156						
Hexachlorobutadiene	101		10-155						
2-Hexanone	73		32-160						
Isopropylbenzene	103		38-144						
p-Isopropyltoluene	101		29-152						
Methyl Tertiary Butyl Ether	100		55-129						
4-Methyl-2-pentanone	79		46-139						
Methylene Chloride	97		61-141						
n-Propylbenzene	102		39-157						
Styrene	101		35-134						
1,1,1,2-Tetrachloroethane	100		52-130						
1,1,2,2-Tetrachloroethane	95		40-152						
Tetrachloroethene	109		42-149						
Toluene	99		50-146						

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:35 PM

Group Number: 1223083

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,3-Trichlorobenzene	97		10-140						
1,2,4-Trichlorobenzene	95		10-136						
1,1,1-Trichloroethane	109		64-142						
1,1,2-Trichloroethane	98		54-139						
Trichloroethene	104		53-144						
Trichlorofluoromethane	95		47-163						
1,2,3-Trichloropropane	97		45-154						
1,2,4-Trimethylbenzene	99		37-149						
1,3,5-Trimethylbenzene	99		38-150						
Vinyl Chloride	83		50-154						
m+p-Xylene	102		44-137						
o-Xylene	97		42-137						
Batch number: E103351AA	Sample number(s): 6151505 UNSPK: P151866								
1,4-Dioxane	100	119	50-150	8	30				
Batch number: 10335SLE026	Sample number(s): 6151502-6151504,6151506-6151509 UNSPK: P147115								
Acenaphthene	83	80	63-105	3	30				
Acenaphthylene	82	79	55-126	3	30				
Anthracene	84	81	46-136	4	30				
Benzo(a)anthracene	93	82	39-144	11	30				
Benzo(a)pyrene	72	90	34-156	15	30				
Benzo(b)fluoranthene	140	136	43-155	2	30				
Benzo(g,h,i)perylene	-1*	32*	33-141	31*	30				
Benzo(k)fluoranthene	109	98	42-144	8	30				
Butylbenzylphthalate	146*	145*	73-140	1	30				
Di-n-butylphthalate	109	100	78-160	8	30				
Chrysene	78	84	29-156	6	30				
Dibenz(a,h)anthracene	34*	37*	41-130	7	30				
Diethylphthalate	107	82*	87-131	26	30				
Dimethylphthalate	96	89	74-118	8	30				
Bis(2-Ethylhexyl)phthalate	86	106	39-167	11	30				
Fluoranthene	71	56	26-166	20	30				
Fluorene	86	82	45-121	5	30				
Indeno(1,2,3-cd)pyrene	33	36	21-143	7	30				
1-Methylnaphthalene	87	87	72-123	0	30				
2-Methylnaphthalene	77	78	28-121	1	30				
Naphthalene	81	82	61-102	0	30				
N-Nitrosodimethylamine	74	76	48-113	2	30				
Di-n-octylphthalate	238*	195*	40-192	20	30				
Phenanthrene	85	79	12-165	7	30				
Pyrene	155*	150	15-153	3	30				
Batch number: 10335SLF026	Sample number(s): 6151502-6151504,6151506-6151509 UNSPK: 6151502								
Aniline	59	57	14-114	4	30				
Benzidine	24*	26*	35-141	9	30				
Benzoic acid	36	33	10-173	9	30				
Benzyl alcohol	87	90	55-123	3	30				
4-Bromophenyl-phenylether	101	99	67-129	1	30				
Carbazole	97	95	64-120	2	30				
4-Chloro-3-methylphenol	92	92	53-130	0	30				
4-Chloroaniline	59	54	23-95	8	30				
bis(2-Chloroethoxy)methane	88	88	54-117	1	30				

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Quality Control Summary

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Reported: 12/29/10 at 04:35 PM

Group Number: 1223083

Sample Matrix Quality Control

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

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
bis(2-Chloroethyl)ether	81	81	60-116	1	30				
bis(2-Chloroisopropyl)ether	69	69	55-142	1	30				
2-Chloronaphthalene	92	95	50-141	3	30				
2-Chlorophenol	89	91	73-121	2	30				
4-Chlorophenyl-phenylether	100	99	64-119	0	30				
Dibenzofuran	96	97	71-112	0	30				
1,2-Dichlorobenzene	79	77	66-108	2	30				
1,3-Dichlorobenzene	77	76	63-109	1	30				
1,4-Dichlorobenzene	80	77	53-113	4	30				
3,3'-Dichlorobenzidine	70	63	25-123	10	30				
2,4-Dichlorophenol	98	96	78-117	2	30				
2,4-Dimethylphenol	91	91	56-130	0	30				
3,5-Dimethylphenol	102	100	70-130	2	30				
4,6-Dinitro-2-methylphenol	66	61	10-148	8	30				
2,4-Dinitrophenol	47	41	20-143	14	30				
2,4-Dinitrotoluene	94	97	57-114	4	30				
2,6-Dinitrotoluene	97	95	69-123	1	30				
1,2-Diphenylhydrazine	92	92	71-129	0	30				
Hexachlorobenzene	101	104	61-111	2	30				
Hexachlorobutadiene	87	86	62-120	1	30				
Hexachlorocyclopentadiene	73	67	10-153	9	30				
Hexachloroethane	75	75	57-109	0	30				
Isophorone	83	83	51-118	0	30				
2-Methylphenol	87	87	47-142	0	30				
4-Methylphenol	84	84	55-126	1	30				
2-Nitroaniline	94	96	67-125	2	30				
3-Nitroaniline	90	87	59-122	3	30				
4-Nitroaniline	72	70	52-112	3	30				
Nitrobenzene	83	83	51-114	0	30				
2-Nitrophenol	91	91	74-115	1	30				
4-Nitrophenol	75	72	39-133	3	30				
N-Nitroso-di-n-propylamine	76	76	60-116	1	30				
N-Nitrosodiphenylamine	99	99	86-145	0	30				
Pentachlorophenol	82	79	17-149	5	30				
Phenol	80	79	58-126	2	30				
1,2,4-Trichlorobenzene	90	90	72-115	0	30				
2,4,5-Trichlorophenol	99	98	34-139	0	30				
2,4,6-Trichlorophenol	101	98	49-140	3	30				

Batch number: 10340SLA026 Sample number(s): 6151503-6151504,6151507,6151509 UNSPK: P154843
N-Nitrosodimethylamine 81 99 70-130 17 30

Batch number: 10336A20A Sample number(s): 6151505 UNSPK: P151700
TPH-GRO S.CA water C5-C12 100 63-154

Batch number: 10336A34A Sample number(s): 6151503-6151504,6151507,6151509 UNSPK: P154843
9a TPH by EPA 8015B Gas 69 70 39-118 4 30

Batch number: 103380015A Sample number(s): 6151503-6151504,6151507,6151509 UNSPK: P154843
4-Amino-2,6-Dinitrotoluene 106 104 80-127 1 50
2-Amino-4,6-Dinitrotoluene 107 106 80-137 1 50
1,3-Dinitrobenzene 114 103 38-166 10 50
2,4-Dinitrotoluene 103 102 80-131 1 50

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/29/10 at 04:35 PM

Group Number: 1223083

Sample Matrix Quality Control

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

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2,6-Dinitrotoluene	106	105	80-127	1	50				
HMX	98	98	63-128	0	50				
Nitrobenzene	103	101	80-125	1	50				
Nitroglycerin	102	101	80-120	1	50				
2-Nitrotoluene	107	107	80-122	0	50				
3-Nitrotoluene	105	105	72-119	0	50				
4-Nitrotoluene	104	102	80-125	2	50				
PETN	109	108	80-121	1	50				
RDX	94	94	75-129	0	50				
Tetryl	111	106	55-174	4	50				
1,3,5-Trinitrobenzene	114	112	82-126	2	50				
2,4,6-Trinitrotoluene	105	103	82-130	2	50				
Batch number: 103350004A 17a Formaldehyde by 8315A	Sample number(s): 6151503-6151504,6151507,6151509 UNSPK: P150586 98 91 80-120 8 50								
Batch number: 103420019A 6a Perchlorate EPA 6850	Sample number(s): 6151502 UNSPK: 6151502 101 106 70-130 5 30								
Batch number: 103340014A PCB-1016 PCB-1260	Sample number(s): 6151502-6151504,6151506-6151509 UNSPK: P150585 92 97 29-146 5 50 99 110 39-149 10 50								
Batch number: 103350018A EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30 - C40) EFH (C8-C11)	Sample number(s): 6151503-6151504,6151507,6151509 UNSPK: 6151503 82 85 49-123 3 20 103 102 49-123 1 20 226* 202* 49-123 6 20 151 (2) 124 (2) 49-123 3 20 55 62 49-123 12 20								
Batch number: 103340018A Ethanol Isopropanol Methanol	Sample number(s): 6151503-6151504,6151507,6151509 UNSPK: 6151503 90 86 24-143 4 20 89 85 75-125 5 20 87 88 45-136 1 20								
Batch number: 103350011A Diethylene glycol Ethylene glycol Propylene glycol	Sample number(s): 6151503-6151504,6151507,6151509 UNSPK: P144599 49* 79 59-109 47* 20 86 101 63-107 16 20 79 94 63-107 17 20								
Batch number: 103370023A m-Terphenyl o-Terphenyl p-Terphenyl	Sample number(s): 6151503-6151504,6151507,6151509 UNSPK: 6151503 85 89 75-125 5 20 89 93 75-125 5 20 84 89 75-125 6 20								
Batch number: 10336001 1,1-Dimethylhydrazine Hydrazine Methylhydrazine	Sample number(s): 6151503-6151504,6151507,6151509 UNSPK: 6151503 50 51 10-116 0 30 37 37 11-102 0 30 28 34 10-92 17 30								
Batch number: 103351026003A Antimony Arsenic	Sample number(s): 6151502-6151504,6151506-6151509 UNSPK: 6151502 BKG: 6151502 29* 39* 75-125 23* 20 0.0599 J 0.0649 J 8 (1) 20 155* 239* 75-125 17 20 5.47 5.39 1 20								

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Quality Control Summary

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Reported: 12/29/10 at 04:35 PM

Group Number: 1223083

Sample Matrix Quality Control

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

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Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Beryllium	109	143*	75-125	16	20	0.578	0.623	7	20
Cadmium	107	151*	75-125	30*	20	0.104	0.116	11 (1)	20
Chromium	115	155*	75-125	12	20	16.8	16.5	1	20
Cobalt	96	115	75-125	15	20	5.28	5.52	4	20
Copper	99	129*	75-125	16	20	5.98	6.59	10	20
Lead	84	143*	75-125	22*	20	4.15	4.33	4	20
Nickel	113	144*	75-125	13	20	9.08	9.74	7	20
Silver	122	145*	75-125	15	20	0.0266 J	0.0245 J	8 (1)	20
Thallium	110	126*	75-125	8	20	0.248	0.262	5 (1)	20
Vanadium	133*	254*	75-125	23*	20	30.5	32.8	7	20
Zinc	213 (2)	313 (2)	75-125	12	20	50.7	53.1	5	20
Batch number: 103351026003B	Sample number(s): 6151502-6151504, 6151506-6151509 UNSPK: 6151502 BKG: 6151502								
Selenium	107	121	75-125	10	20	0.171 J	0.147 J	15 (1)	20
Batch number: 103351026003C	Sample number(s): 6151502-6151504, 6151506-6151509 UNSPK: 6151502 BKG: 6151502								
Molybdenum	114	136*	75-125	15	20	0.419	0.389	7 (1)	20
Batch number: 103351026003D	Sample number(s): 6151502-6151504, 6151506-6151509 UNSPK: 6151502 BKG: 6151502								
Barium	200 (2)	474 (2)	75-125	24*	20	74.6	79.8	7	20
Batch number: 103355708003	Sample number(s): 6151502-6151504, 6151506-6151509 UNSPK: 6151502 BKG: 6151502								
Aluminum	823 (2)	844 (2)	75-125	0	20	15,800	16,000	2	20
Boron	98	97	84-115	2	20	6.98	6.96	0 (1)	20
Calcium	152 (2)	155 (2)	75-125	0	20	2,560	2,760	7	20
Iron	-1344 (2)	-1535 (2)	75-125	1	20	19,700	20,000	2	20
Lithium	100	101	82-114	0	20	19.8	20.0	1	20
Magnesium	-100 (2)	-54 (2)	75-125	2	20	5,090	5,050	1	20
Manganese	92 (2)	70 (2)	75-125	3	20	300	311	4	20
Phosphorus	88	98	75-125	2	20	278	306	9	20
Potassium	44*	50*	75-125	2	20	3,010	2,560	16	20
Sodium	98	99	75-125	0	20	117	124	5 (1)	20
Strontium	103	102	75-115	2	20	18.2	20.0	10	20
Tin	91	91	80-110	1	20	2.90 J	2.71 J	7 (1)	20
Titanium	16 (2)	8 (2)	75-125	1	20	1,280	1,070	18	20
Zirconium	103	104	75-125	0	20	3.01 J	3.84 J	24* (1)	20
Batch number: 103355711003	Sample number(s): 6151502-6151504, 6151506-6151509 UNSPK: 6151502 BKG: 6151502								
Mercury	96	96	65-135	1	20	0.0027 U	0.0028 U	0 (1)	20
Batch number: 10340102201A	Sample number(s): 6151503-6151504, 6151507, 6151509 UNSPK: P150587 BKG: P150587								
21a Cyanide by 9012B	91		75-125			0.18 U	0.18 U	0 (1)	20
Batch number: 10341341201B	Sample number(s): 6151502-6151504, 6151506 UNSPK: P149366 BKG: P149366								
11a Anions by 300.0 - Fluoride	50*		80-120			5.1	4.6	9 (1)	20
11a Anions by 300.0 - Nitrate	100		80-120			0.80 U	0.80 U	0 (1)	20
Batch number: 10342342202A	Sample number(s): 6151507-6151509 UNSPK: 6151507 BKG: 6151507								
11a Anions by 300.0 - Fluoride	42*		80-120			12.5	11.6	7	20
11a Anions by 300.0 - Nitrate	96		80-120			6.6	6.6	0 (1)	20

*- 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: 12/29/10 at 04:35 PM

Group Number: 1223083

Sample Matrix Quality Control

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup Max	RPD
Batch number: 10343343201A 7a Perchlorate EPA 314.0	109		80-120			9.0	U	9.0	U	0 (1)
Batch number: 10347243201A 3a Cr VI by EPA 7199	99		75-125			2.4	0.20	U	200* (1)	20
Batch number: 10334039403A 22a pH by 9045C						7.85	7.85		0	1
Batch number: 10334182101A Oxidation Reduction Potential						451	452		0	6
Batch number: 10334162401A 28a Total Solids by 160.3						4.3	4.1		4	20
Batch number: 10347162401A 28a Total Solids by 160.3						21.9	30.1		32*	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: B103341AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6151502	107	105	98	93
6151503	106	101	99	89
6151504	106	101	96	95
6151506	107	102	97	95
6151507	105	101	97	94
6151509	106	98	97	92
Blank	106	103	96	95
LCS	104	107	98	102
LCSD	103	103	98	102
MS	102	103	100	103
Limits:	80-120	80-120	81-117	74-121

Analysis Name: 14b 1,4-Dioxane by 8260B SIM
Batch number: E103351AA
Toluene-d8

6151505	102
Blank	101
LCS	100
MS	102
MSD	101

*- 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: 12/29/10 at 04:35 PM

Group Number: 1223083

Surrogate Quality Control

Limits: 80-120

Analysis Name: 14a 1,4-Dioxane by 8260B SIM
Batch number: E103361AA
Toluene-d8

6151502	98
6151503	99
6151504	98
6151506	98
6151507	99
6151509	98
Blank	99
LCS	99
LCSD	99

Limits: 70-130

Analysis Name: 1b Volatile Organics EPA8260
Batch number: Y103352AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6151505	100	99	104	100
Blank	101	98	104	101
LCS	102	101	106	104
LCSD	101	100	104	105

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

Analysis Name: 4a Select SVOC EPA 8270SIM
Batch number: 10335SLE026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6151502	83	86	81
6151503	78	81	77
6151504	82	83	79
6151506	88	90	82
6151507	83	83	79
6151508	82	85	81
6151509	78	83	82
Blank	82	89	87
LCS	80	84	80
MS	77	84	152*
MSD	75	80	157*

Limits: 40-130 45-130 45-135

Analysis Name: 5a Semivolatiles by EPA 8270C
Batch number: 10335SLF026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
6151502	76	79	94	68	78	89
6151503	74	75	80	61	69	83
6151504	74	77	79	65	75	82
6151506	76	77	82	68	76	87
6151507	74	77	77	68	78	89
6151508	69	75	73	68	76	76

*- 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: 12/29/10 at 04:35 PM

Group Number: 1223083

Surrogate Quality Control

6151509	79	83	77	73	84	90
Blank	81	85	96	77	85	89
LCS	85	88	100	80	90	92
MS	84	87	98	80	90	94
MSD	85	87	99	79	90	93

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

Analysis Name: 19a NDMA by 1625C
Batch number: 10340SLA026
N-Nitrosodimethylamine-
d6

6151503	39*
6151504	127
6151507	83
6151509	87
Blank	93
LCS	86
MS	92
MSD	72

Limits:	50-150

Analysis Name: 9b TPH by EPA 8015B Gas
Batch number: 10336A20A
Trifluorotoluene-F

6151505	82
Blank	80
LCS	99
LCSD	100
MS	93

Limits:	63-135

Analysis Name: 9a TPH by EPA 8015B Gas
Batch number: 10336A34A
Trifluorotoluene-F

6151503	79
6151504	86
6151507	80
6151509	80
Blank	102
LCS	103
LCSD	108
MS	84
MSD	89

Limits:	61-122

Analysis Name: 8a PCBs/PCTs by 8082
Batch number: 103340014A
Tetrachloro-m-xylene Decachlorobiphenyl

6151502	92	91

*- 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: 12/29/10 at 04:35 PM

Group Number: 1223083

Surrogate Quality Control

6151503	85	76
6151504	104	86
6151506	119	112
6151507	94	90
6151508	85	92
6151509	111	98
Blank	110	96
LCS	105	98
LCSD	110	108
MS	101	90
MSD	103	103

Limits: 53-139 45-120

Analysis Name: 17a Formaldehyde by 8315A
Batch number: 103350004A
Butyraldehyde

6151503	108
6151504	109
6151507	101
6151509	91
Blank	97
LCS	104
MS	100
MSD	94

Limits: 64-126

Analysis Name: 20a Energetics by 8330A
Batch number: 103380015A
2-Nitro-m-xylene

6151503	112
6151504	110
6151507	110
6151509	119
Blank	107
LCS	115
LCSD	111
MS	123
MSD	112

Limits: 80-146

Analysis Name: 25a Alcohols by 8015B
Batch number: 103340018A
Acetone

6151503	85
6151504	90
6151507	80
6151509	78
Blank	89
LCS	76
MS	79
MSD	74

*- Outside of specification

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

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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: 12/29/10 at 04:35 PM

Group Number: 1223083

Surrogate Quality Control

Limits: 42-138

Analysis Name: 27a Glycols by 8015B
Batch number: 103350011A
Tetramethylene glycol

6151503	76
6151504	64
6151507	91
6151509	66
Blank	116
LCS	99
MS	75
MSD	86

Limits: 50-119

Analysis Name: 9a TPH by EPA 8015B Oil/Diesel
Batch number: 103350018A
Chlorobenzene Orthoterphenyl

6151503	77	81
6151504	75	83
6151507	81	93
6151509	77	83
Blank	89	93
LCS	84	90
MS	79	90
MSD	83	91

Limits: 37-125 47-145

Analysis Name: 26a Terphenyls by 8015B
Batch number: 103370023A
n-Triacontane-d62

6151503	94
6151504	99
6151507	102
6151509	89
Blank	95
LCS	94
MS	89
MSD	90

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 1223083 6151502-09

CHAIN OF CUSTODY RECORD

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						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 808Z	*Dioxin/Furan EPA 1613B	*Perchlorate EPA 314.0	Perchlorate Confirmation by EPA 6850	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151 (surface soil only)	**Nitrates EPA 300.0	**Formaldehyde EPA 8315A	**Hydrazine EPA 8315A	**n-NDMA EPA 1625C		**Energetics EPA 8330A	**Cyanide EPA 9012B	**pH EPA 9045C	**Alcohols EPA 8015B	**Glycols EPA 8015B	**Terphenyls EPA 8015B
SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers																									
SL-058-SA5C-SB-3.5	11.29.10	0940	soil	none	4 encore samplers	X	X																							
SL-059-SA5C-SB-1.5	11.29.10	1107	soil	none	5 encore samplers	X	X		X																					Sample has staining
SL-059-SA5C-SB-9.5	11.29.10	1113	soil	none	5 encore samplers	X	X		X																					
TB-112910	11.29.10	1515	water	HCl	4-40 ml vials	X	X		X																					Trip Blank
SL-058-SA5C-SB-3.0-4.0	11.29.10	0945	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X	X													
SL-059-SA5C-SB-9.0-10.0	11.29.10	1115	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X														
SL-059-SA5C-SB-9.0-10.0	11.29.10	1115	soil	none	1 - 16 oz. jar														X	X		X	X	X	X			X		
SL-059-SA5C-SB-9.0-10.0	11.29.10	1115	soil	none	3 - 4 oz. jars					X																	X	X		
SL-059-SA5C-SB-9.0-10.0	11.29.10	1115	soil	none	1 - 4 oz. amber jar																X									
SL-059-SA5C-SB-1.0-2.0	11.29.10	1110	soil	none	2 - 16 oz. jars			X			X	X	X	X	X	X														Sample has staining
SL-059-SA5C-SB-1.0-2.0	11.29.10	1110	soil	none	1 - 16 oz. jar														X	X		X	X	X	X			X		Sample has staining
SL-059-SA5C-SB-1.0-2.0	11.29.10	1110	soil	none	3 - 4 oz. jars					X																	X	X		Sample has staining
SL-059-SA5C-SB-1.0-2.0	11.29.10	1110	soil	none	1 - 4 oz. amber jar																X									Sample has staining
SL-075-SA5C-SB-4.5	11.29.10	1537	soil	none	4 encore samplers	X	X																							
SL-071-SA5C-SB-9.5	11.29.10	1425	soil	none	5 encore samplers	X	X		X																					
SL-071-SA5C-SB-4.5	11.29.10	1418	soil	none	5 encore samplers	X	X		X																					
Relinquished by: (Signature) <i>Shelly Samantoni</i>	Date/Time 11.29.10 1630	Received for Laboratory by: (Signature) <i>[Signature]</i>		Date/Time	<i>[Signature]</i> 11/30/10 0910																		Laboratory: Lancaster Laboratories, Inc.							
Received by: (Signature) <i>FedEx</i>	Date/Time	Airbill No. 00732992		Tracking Number 869514314845																		Cooler 1								

6151502-09

CHAIN OF CUSTODY RECORD

[illegible]

Explanation of Symbols and Abbreviations

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

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

U.S. EPA CLP Data Qualifiers:

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

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

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

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

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ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

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

December 21, 2010

Project: SSFL Area IV Collocated Soil Sampling

Submittal Date: 12/01/2010

Group Number: 1223249

SDG: DE025

PO Number: 1203-004-007-AL

Release Number: Tracking #11667

State of Sample Origin: CA

Client Sample DescriptionSL-057-SA5C-SB-4.0-5.0 Soil
SL-057-SA5C-SB-7.0-8.0 Soil
SL-074-SA5C-SB-4.0-5.0 Soil
SL-074-SA5C-SB-8.0-9.0 Soil
SL-070-SA5C-SB-4.0-5.0 Soil
SL-070-SA5C-SB-9.0-10.0 Soil
SL-043-SA5C-SB-2.0-3.0 Soil
EB11-SA5C-113010 Water
TB-113010 WaterLancaster Labs (LLI) #6152645
6152646
6152647
6152648
6152649
6152650
6152651
6152652
6152653

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

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

Attn: Todd Burgess

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

Respectfully Submitted,



Matthew E. Barton
Senior Specialist

Sample Description: SL-057-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SB-4.0-5.0

LLI Sample # SW 6152645
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 09:33 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

05745 SDG#: DE025-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.5 U	7.5	9.0	1.01
06192	Benzene	71-43-2	0.11 U	0.11	4.5	1.01
06192	Bromobenzene	108-86-1	0.15 U	0.15	4.5	1.01
06192	Bromochloromethane	74-97-5	0.37 U	0.37	4.5	1.01
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.5	1.01
06192	Bromoform	75-25-2	0.45 U	0.45	4.5	1.01
06192	Bromomethane	74-83-9	0.28 U	0.28	4.5	1.01
06192	2-Butanone	78-93-3	1.4 U	1.4	9.0	1.01
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.5	1.01
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.5	1.01
06192	tert-Butylbenzene	98-06-6	0.18 U	0.18	4.5	1.01
06192	Carbon Tetrachloride	56-23-5	0.16 U	0.16	4.5	1.01
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.5	1.01
06192	Chloroethane	75-00-3	0.15 U	0.15	4.5	1.01
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.34 U	0.34	4.5	1.01
06192	Chloroform	67-66-3	0.13 U	0.13	4.5	1.01
06192	Chloromethane	74-87-3	0.37 U	0.37	4.5	1.01
06192	2-Chlorotoluene	95-49-8	0.16 U	0.16	4.5	1.01
06192	4-Chlorotoluene	106-43-4	0.16 U	0.16	4.5	1.01
06192	Chlorotrifluoroethene	79-38-9	0.56 U	0.56	5.6	1.01
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.79 U	0.79	4.5	1.01
06192	Dibromochloromethane	124-48-1	0.22 U	0.22	4.5	1.01
06192	1,2-Dibromoethane	106-93-4	0.19 U	0.19	4.5	1.01
06192	Dibromomethane	74-95-3	0.27 U	0.27	4.5	1.01
06192	1,2-Dichlorobenzene	95-50-1	0.10 U	0.10	4.5	1.01
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.5	1.01
06192	1,4-Dichlorobenzene	106-46-7	0.18 U	0.18	4.5	1.01
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.5	1.01
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.5	1.01
06192	1,2-Dichloroethane	107-06-2	0.17 U	0.17	4.5	1.01
06192	1,1-Dichloroethene	75-35-4	0.44 U	0.44	4.5	1.01
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.5	1.01
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.5	1.01
06192	1,2-Dichloropropane	78-87-5	0.19 U	0.19	4.5	1.01
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.5	1.01
06192	2,2-Dichloropropane	594-20-7	0.19 U	0.19	4.5	1.01
06192	1,1-Dichloropropene	563-58-6	0.15 U	0.15	4.5	1.01
06192	cis-1,3-Dichloropropene	10061-01-5	0.18 U	0.18	4.5	1.01
06192	trans-1,3-Dichloropropene	10061-02-6	0.19 U	0.19	4.5	1.01
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.5	1.01
06192	Freon 113	76-13-1	0.12 U	0.12	4.5	1.01
06192	Freon 133a	75-88-7	0.56 U	0.56	5.6	1.01
06192	Hexachlorobutadiene	87-68-3	0.16 U	0.16	4.5	1.01
06192	2-Hexanone	591-78-6	1.8 U	1.8	9.0	1.01
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.5	1.01
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.5	1.01
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.24 U	0.24	4.5	1.01
06192	4-Methyl-2-pentanone	108-10-1	0.44 U	0.44	9.0	1.01
06192	Methylene Chloride	75-09-2	1.8 J	0.27	4.5	1.01
06192	n-Propylbenzene	103-65-1	0.08 U	0.08	4.5	1.01

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

Sample Description: SL-057-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SB-4.0-5.0

LLI Sample # SW 6152645
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 09:33 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

05745 SDG#: DE025-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.5	1.01
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.5	1.01
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.26 U	0.26	4.5	1.01
06192	Tetrachloroethene	127-18-4	0.22 U	0.22	4.5	1.01
06192	Toluene	108-88-3	0.14 J	0.09	4.5	1.01
06192	1,2,3-Trichlorobenzene	87-61-6	0.16 U	0.16	4.5	1.01
06192	1,2,4-Trichlorobenzene	120-82-1	0.20 U	0.20	4.5	1.01
06192	1,1,1-Trichloroethane	71-55-6	0.22 U	0.22	4.5	1.01
06192	1,1,2-Trichloroethane	79-00-5	0.30 U	0.30	4.5	1.01
06192	Trichloroethene	79-01-6	0.17 U	0.17	4.5	1.01
06192	Trichlorofluoromethane	75-69-4	0.33 U	0.33	4.5	1.01
06192	1,2,3-Trichloropropane	96-18-4	0.37 U	0.37	4.5	1.01
06192	1,2,4-Trimethylbenzene	95-63-6	0.45 U	0.45	4.5	1.01
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.5	1.01
06192	Vinyl Chloride	75-01-4	0.22 U	0.22	4.5	1.01
06192	m+p-Xylene	179601-23-1	0.19 U	0.19	4.5	1.01
06192	o-Xylene	95-47-6	0.19 U	0.19	4.5	1.01
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16	23.58
GC/MS	Semivolatiles	SW-846 8270C	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

Sample Description: SL-057-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SB-4.0-5.0

LLI Sample # SW 6152645
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 09:33 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

05745 SDG#: DE025-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Hexachlorobenzene	118-74-1	19	U 19	190	1
04688	Hexachlorobutadiene	87-68-3	74	U 74	190	1
04688	Hexachlorocyclopentadiene	77-47-4	190	U 190	560	1
04688	Hexachloroethane	67-72-1	19	U 19	190	1
04688	Isophorone	78-59-1	19	U 19	190	1
04688	2-Methylphenol	95-48-7	37	U 37	190	1
04688	4-Methylphenol	106-44-5	37	U 37	190	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					
04688	2-Nitroaniline	88-74-4	19	U 19	190	1
04688	3-Nitroaniline	99-09-2	37	U 37	190	1
04688	4-Nitroaniline	100-01-6	74	U 74	190	1
04688	Nitrobenzene	98-95-3	19	U 19	190	1
04688	2-Nitrophenol	88-75-5	19	U 19	190	1
04688	4-Nitrophenol	100-02-7	190	U 190	560	1
04688	N-Nitroso-di-n-propylamine	621-64-7	19	U 19	190	1
04688	N-Nitrosodiphenylamine	86-30-6	19	U 19	190	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.					
04688	Pentachlorophenol	87-86-5	190	U 190	560	1
04688	Phenol	108-95-2	19	U 19	190	1
04688	1,2,4-Trichlorobenzene	120-82-1	19	U 19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	37	U 37	190	1
04688	2,4,6-Trichlorophenol	88-06-2	37	U 37	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.74	U 0.74	1.9	1
10138	Acenaphthylene	208-96-8	0.37	U 0.37	1.9	1
10138	Anthracene	120-12-7	0.37	U 0.37	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.74	U 0.74	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 0.74	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.7	U 6.7	20	1
10138	Di-n-butylphthalate	84-74-2	18	J 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

Sample Description: SL-057-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SB-4.0-5.0

LLI Sample # SW 6152645
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 09:33 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

05745 SDG#: DE025-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	N-Nitrosodimethylamine	62-75-9	0.74 U	0.74	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.7 U	6.7	20	1
10138	Phenanthrene	85-01-8	0.74 U	0.74	1.9	1
10138	Pyrene	129-00-0	0.74 U	0.74	1.9	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.7	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.7	1
10225	PCB-1016	12674-11-2	0.37 U	0.37	1.9	1
10225	PCB-1221	11104-28-2	0.56 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						
01643	Aluminum	7429-90-5	31,200	5.49	21.8	1
07914	Boron	7440-42-8	3.92 J	0.972	5.46	1
01650	Calcium	7440-70-2	4,830	6.69	21.8	1
01654	Iron	7439-89-6	30,200	25.7	109	5
01656	Lithium	7439-93-2	30.8	0.24	2.2	1
01657	Magnesium	7439-95-4	6,710	2.77	10.9	1
06958	Manganese	7439-96-5	334	0.0852	0.546	1
10145	Phosphorus	7723-14-0	204	0.611	10.9	1
01662	Potassium	7440-09-7	3,420	19.7	54.6	1
01667	Sodium	7440-23-5	223	40.7	109	1
07968	Strontium	7440-24-6	39.7	0.0677	0.546	1
06969	Tin	7440-31-5	3.05 J	1.09	10.9	1
06970	Titanium	7440-32-6	1,450	2.07	5.46	5
10146	Zirconium	7440-67-7	6.61	0.917	5.46	1
SW-846 6020						
06124	Antimony	7440-36-0	0.0797 J	0.0655	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	7.99	0.0655	0.437	2
06126	Barium	7440-39-3	167	0.295	1.09	5
06127	Beryllium	7440-41-7	1.12	0.0175	0.109	2
06128	Cadmium	7440-43-9	0.341	0.0393	0.109	2
06131	Chromium	7440-47-3	41.4	0.131	0.437	2
06132	Cobalt	7440-48-4	10.9	0.0218	0.109	2
06133	Copper	7440-50-8	15.4	0.0721	0.437	2

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

Sample Description: SL-057-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SB-4.0-5.0

LLI Sample # SW 6152645
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 09:33 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

05745 SDG#: DE025-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	8.05	0.0114	0.218	2
06138	Molybdenum	7439-98-7	0.497	0.0546	0.109	2
06139	Nickel	7440-02-0	23.5	0.109	0.437	2
06141	Selenium	7782-49-2	0.126 J	0.0437	0.437	2
06142	Silver	7440-22-4	0.0842 J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.460	0.0328	0.109	2
06148	Vanadium	7440-62-2	76.4	0.0240	0.109	2
06149	Zinc	7440-66-6	102	0.611	3.28	2
	SW-846 7471A		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	
07332	Fluoride by IC (solid)	16984-48-8	7.0	0.89	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.0 U	10.0	33.4	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.63 J	0.22	1.1	1
	ASTM D1498		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	499	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.38	0.0100	0.0100	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11624	Moisture CDM	n.a.	10.2	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-057-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.

Sample Description: SL-057-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SB-4.0-5.0

LLI Sample # SW 6152645
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 09:33 by PH

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Suite 210
Chantilly VA 20151

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

05745 SDG#: DE025-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103361AA	12/02/2010 13:42	Chelsea B Eastep	1.01
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 17:50	Jason M Long	23.58
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033523148	12/01/2010 16:27	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033523148	12/01/2010 16:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033523148	12/01/2010 16:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033523148	12/01/2010 16:23	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10335SLF026	12/10/2010 11:40	Brian K Graham	1
10138	Selected SVOCs in soil by SIM	SW-846 8270C SIM	1	10335SLE026	12/04/2010 05:05	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103400026A	12/07/2010 17:29	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 10:00	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/04/2010 02:24	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 02:24	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/07/2010 10:04	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 02:24	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 02:24	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 02:24	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 02:24	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 02:24	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 02:24	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 02:24	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 02:24	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 10:04	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 02:24	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 15:48	Choon Y Tian	5
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 15:21	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 15:21	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 15:21	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:52	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Conners	1

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

Sample Description: SL-057-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SB-4.0-5.0

LLI Sample # SW 6152645
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 09:33 by PH

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05745 SDG#: DE025-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10342342202A	12/10/2010 05:16	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10343343201A	12/13/2010 19:53	Carrie E Miller	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10349243201A	12/18/2010 15:08	Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1	10342342202A	12/08/2010 14:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10343343201A	12/09/2010 13:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10335182103A	12/01/2010 12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10335039403A	12/01/2010 12:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10343162401A	12/09/2010 08:36	William C Schwebel	1

Sample Description: SL-057-SA5C-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SB-7.0-8.0

LLI Sample # SW 6152646
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 09:37 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

05778 SDG#: DE025-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	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

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

Sample Description: SL-057-SA5C-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SB-7.0-8.0

LLI Sample # SW 6152646
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 09:37 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

05778 SDG#: DE025-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	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	
10138	Acenaphthene	83-32-9	0.72 U	0.72	1.8	1
10138	Acenaphthylene	208-96-8	0.36 U	0.36	1.8	1
10138	Anthracene	120-12-7	0.36 U	0.36	1.8	1
10138	Benzo(a)anthracene	56-55-3	0.72 U	0.72	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.72 U	0.72	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.72 U	0.72	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.72 U	0.72	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.72 U	0.72	1.8	1
10138	Butylbenzylphthalate	85-68-7	6.5 U	6.5	19	1
10138	Di-n-butylphthalate	84-74-2	6.5 U	6.5	19	1
10138	Chrysene	218-01-9	0.36 U	0.36	1.8	1
10138	Dibenz(a,h)anthracene	53-70-3	0.72 U	0.72	1.8	1
10138	Diethylphthalate	84-66-2	6.5 U	6.5	19	1
10138	Dimethylphthalate	131-11-3	6.5 U	6.5	19	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	6.5 U	6.5	19	1
10138	Fluoranthene	206-44-0	0.72 U	0.72	1.8	1
10138	Fluorene	86-73-7	0.72 U	0.72	1.8	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.72 U	0.72	1.8	1
10138	1-Methylnaphthalene	90-12-0	0.72 U	0.72	1.8	1
10138	2-Methylnaphthalene	91-57-6	0.72 U	0.72	1.8	1
10138	Naphthalene	91-20-3	0.72 U	0.72	1.8	1
10138	N-Nitrosodimethylamine	62-75-9	0.72 U	0.72	1.8	1
10138	Di-n-octylphthalate	117-84-0	6.5 U	6.5	19	1
10138	Phenanthrene	85-01-8	0.72 U	0.72	1.8	1
10138	Pyrene	129-00-0	0.72 U	0.72	1.8	1
Pesticides/PCBs	SW-846 8082		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	0.36 U	0.36	1.8	1
10225	PCB-1260	11096-82-5	0.36 U	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	
01643	Aluminum	7429-90-5	21,700	5.33	21.2	1

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

Sample Description: SL-057-SA5C-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SB-7.0-8.0

LLI Sample # SW 6152646
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 09:37 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

05778 SDG#: DE025-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	4.74 J	0.943	5.30	1
01650	Calcium	7440-70-2	4,100	6.50	21.2	1
01654	Iron	7439-89-6	23,900	4.99	21.2	1
01656	Lithium	7439-93-2	26.9	0.23	2.1	1
01657	Magnesium	7439-95-4	5,770	2.69	10.6	1
06958	Manganese	7439-96-5	241	0.0827	0.530	1
10145	Phosphorus	7723-14-0	175	0.594	10.6	1
01662	Potassium	7440-09-7	2,200	19.1	53.0	1
01667	Sodium	7440-23-5	186	39.5	106	1
07968	Strontium	7440-24-6	32.7	0.0657	0.530	1
06969	Tin	7440-31-5	2.87 J	1.06	10.6	1
06970	Titanium	7440-32-6	1,210	2.01	5.30	5
10146	Zirconium	7440-67-7	5.87	0.890	5.30	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0698 J	0.0636	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	5.99	0.0636	0.424	2
06126	Barium	7440-39-3	142	0.114	0.424	2
06127	Beryllium	7440-41-7	0.756	0.0170	0.106	2
06128	Cadmium	7440-43-9	0.245	0.0382	0.106	2
06131	Chromium	7440-47-3	31.2	0.127	0.424	2
06132	Cobalt	7440-48-4	7.52	0.0212	0.106	2
06133	Copper	7440-50-8	9.87	0.0700	0.424	2
06135	Lead	7439-92-1	5.98	0.0110	0.212	2
06138	Molybdenum	7439-98-7	0.280	0.0530	0.106	2
06139	Nickel	7440-02-0	17.2	0.106	0.424	2
06141	Selenium	7782-49-2	0.0458 J	0.0424	0.424	2
06142	Silver	7440-22-4	0.0661 J	0.0127	0.106	2
06145	Thallium	7440-28-0	0.307	0.0318	0.106	2
06148	Vanadium	7440-62-2	58.0	0.0233	0.106	2
06149	Zinc	7440-66-6	71.6	0.594	3.18	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0030 U	0.0030	0.104	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	2.1	0.86	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	9.7 U	9.7	32.4	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.22 U	0.22	1.1	1

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

Sample Description: SL-057-SA5C-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SB-7.0-8.0

LLI Sample # SW 6152646
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 09:37 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

05778 SDG#: DE025-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	501	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.63	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	7.5	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

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	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10335SLF026	12/10/2010 12:05	Brian K Graham	1
10138	Selected SV0As in soil by SIM	SW-846 8270C SIM	1	10335SLE026	12/04/2010 05:38	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103400026A	12/07/2010 17:47	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 10:14	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/04/2010 02:28	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 02:28	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/04/2010 02:28	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 02:28	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 02:28	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 02:28	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 02:28	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 02:28	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 02:28	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 02:28	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 02:28	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 10:18	Joanne M Gates	5

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

Sample Description: SL-057-SA5C-SB-7.0-8.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-057-SA5C-SB-7.0-8.0

LLI Sample # SW 6152646
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 09:37 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

05778 SDG#: DE025-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 02:28	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 15:24	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 15:24	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 15:24	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 15:24	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:53	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10342342202A	12/10/2010 05:30	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10343343201A	12/13/2010 20:17	Carrie E Miller	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10349243201A	12/18/2010 15:21	Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1	10342342202A	12/08/2010 14:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10343343201A	12/09/2010 13:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10335182103A	12/01/2010 12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10335039403A	12/01/2010 12:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10343162401A	12/09/2010 08:36	William C Schwebel	1

Sample Description: SL-074-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5C-SB-4.0-5.0

LLI Sample # SW 6152647
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 11:08 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07445 SDG#: DE025-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8 U	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	1.2 U	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	1.2 J	0.24	4.1	0.85
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.1	0.85

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

Sample Description: SL-074-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5C-SB-4.0-5.0

LLI Sample # SW 6152647
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 11:08 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07445 SDG#: DE025-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	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	0.24 U	0.24	4.1	0.85
06192	Tetrachloroethene	127-18-4	0.20 U	0.20	4.1	0.85
06192	Toluene	108-88-3	0.08 U	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	0.28 U	0.28	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	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.3 U	5.3	16	22.24
GC/MS	Semivolatiles	SW-846 8270C	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	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
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

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

Sample Description: SL-074-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5C-SB-4.0-5.0

LLI Sample # SW 6152647
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 11:08 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07445 SDG#: DE025-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	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	
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	0.40	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	21	1
10138	Dimethylphthalate	131-11-3	7.2	U 7.2	21	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	7.2	U 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
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

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

Sample Description: SL-074-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5C-SB-4.0-5.0

LLI Sample # SW 6152647
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 11:08 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07445 SDG#: DE025-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	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
Pesticides/PCBs SW-846 8082						
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.						
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	33,600	5.83	23.2	1
07914	Boron	7440-42-8	37.5	1.03	5.79	1
01650	Calcium	7440-70-2	5,840	7.10	23.2	1
01654	Iron	7439-89-6	33,700	27.3	116	5
01656	Lithium	7439-93-2	26.0	0.25	2.3	1
01657	Magnesium	7439-95-4	7,350	2.94	11.6	1
06958	Manganese	7439-96-5	719	0.0904	0.579	1
10145	Phosphorus	7723-14-0	196	0.649	11.6	1
01662	Potassium	7440-09-7	3,770	20.9	57.9	1
01667	Sodium	7440-23-5	414	43.2	116	1
07968	Strontium	7440-24-6	43.9	0.0718	0.579	1
06969	Tin	7440-31-5	3.08 J	1.16	11.6	1
06970	Titanium	7440-32-6	1,280	2.20	5.79	5
10146	Zirconium	7440-67-7	7.49	0.973	5.79	1
SW-846 6020						
06124	Antimony	7440-36-0	0.147 J	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	7.92	0.0709	0.473	2
06126	Barium	7440-39-3	182	0.128	0.473	2
06127	Beryllium	7440-41-7	1.15	0.0189	0.118	2
06128	Cadmium	7440-43-9	0.489	0.0425	0.118	2
06131	Chromium	7440-47-3	43.5	0.142	0.473	2
06132	Cobalt	7440-48-4	13.0	0.0236	0.118	2
06133	Copper	7440-50-8	16.4	0.0780	0.473	2

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

Sample Description: SL-074-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5C-SB-4.0-5.0

LLI Sample # SW 6152647
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 11:08 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07445 SDG#: DE025-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	9.51	0.0123	0.236	2
06138	Molybdenum	7439-98-7	0.415	0.0591	0.118	2
06139	Nickel	7440-02-0	28.1	0.118	0.473	2
06141	Selenium	7782-49-2	0.214 J	0.0473	0.473	2
06142	Silver	7440-22-4	0.0690 J	0.0142	0.118	2
06145	Thallium	7440-28-0	0.454	0.0354	0.118	2
06148	Vanadium	7440-62-2	81.2	0.0260	0.118	2
06149	Zinc	7440-66-6	97.2	0.662	3.54	2
	SW-846 7471A		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	
07332	Fluoride by IC (solid)	16984-48-8	1.5	0.95	1.2	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.7 U	10.7	35.8	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.43 J	0.24	1.2	1
	ASTM D1498		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	560	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.25	0.0100	0.0100	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11624	Moisture CDM	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-074-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.

Sample Description: SL-074-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5C-SB-4.0-5.0

LLI Sample # SW 6152647
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 11:08 by PH

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Chantilly VA 20151

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07445 SDG#: DE025-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103361AA	12/02/2010 14:05	Chelsea B Eastep	0.85
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 18:10	Jason M Long	22.24
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033523148	12/01/2010 16:32	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033523148	12/01/2010 16:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033523148	12/01/2010 16:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033523148	12/01/2010 16:30	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10335SLF026	12/10/2010 12:31	Brian K Graham	1
10138	Selected SVOCs in soil by SIM	SW-846 8270C SIM	1	10335SLE026	12/07/2010 23:39	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103400026A	12/07/2010 18:06	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 10:22	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/04/2010 02:32	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 02:32	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/07/2010 10:26	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 02:32	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 02:32	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 02:32	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 02:32	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 02:32	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 02:32	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 02:32	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 02:32	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 10:26	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 02:32	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 15:27	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 15:27	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 15:27	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 15:27	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:54	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Connors	1

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

Sample Description: SL-074-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5C-SB-4.0-5.0

LLI Sample # SW 6152647
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 11:08 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07445 SDG#: DE025-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10342342202A	12/10/2010 05:45	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10343343201A	12/13/2010 20:41	Carrie E Miller	1
05892	Hexavalent Chromium by IC	SW-846 7199	2	10349243201A	12/18/2010 15:40	Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1	10342342202A	12/08/2010 14:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10343343201A	12/09/2010 13:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10335182103A	12/01/2010 12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10335039403A	12/01/2010 12:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10343162401A	12/09/2010 08:36	William C Schwebel	1

Sample Description: SL-074-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5C-SB-8.0-9.0

LLI Sample # SW 6152648
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 11:11 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07489 SDG#: DE025-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	570	1
04688	Benidine	92-87-5	1,300	U 1,300	3,800	1
04688	Benzoic acid	65-85-0	190	U 190	570	1
04688	Benzyl alcohol	100-51-6	190	U 190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19	U 19	190	1
04688	Carbazole	86-74-8	19	U 19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38	U 38	190	1
04688	4-Chloroaniline	106-47-8	76	U 76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19	U 19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19	U 19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19	U 19	190	1
04688	2-Chloronaphthalene	91-58-7	19	U 19	190	1
04688	2-Chlorophenol	95-57-8	19	U 19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38	U 38	190	1
04688	Dibenzofuran	132-64-9	19	U 19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19	U 19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19	U 19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19	U 19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110	U 110	380	1
04688	2,4-Dichlorophenol	120-83-2	19	U 19	190	1
04688	2,4-Dimethylphenol	105-67-9	38	U 38	190	1
04688	3,5-Dimethylphenol	108-68-9	38	U 38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190	U 190	570	1
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

Sample Description: SL-074-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5C-SB-8.0-9.0

LLI Sample # SW 6152648
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 11:11 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07489 SDG#: DE025-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19 U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38 U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38 U	38	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.76 U	0.76	1.9	1
10138	Acenaphthylene	208-96-8	0.38 U	0.38	1.9	1
10138	Anthracene	120-12-7	0.38 U	0.38	1.9	1
10138	Benzo(a)anthracene	56-55-3	0.76 U	0.76	1.9	1
10138	Benzo(a)pyrene	50-32-8	0.76 U	0.76	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.76 U	0.76	1.9	1
10138	Benzo(g,h,i)perylene	191-24-2	0.76 U	0.76	1.9	1
10138	Benzo(k)fluoranthene	207-08-9	0.76 U	0.76	1.9	1
10138	Butylbenzylphthalate	85-68-7	6.8 U	6.8	20	1
10138	Di-n-butylphthalate	84-74-2	6.8 U	6.8	20	1
10138	Chrysene	218-01-9	0.38 U	0.38	1.9	1
10138	Dibenz(a,h)anthracene	53-70-3	0.76 U	0.76	1.9	1
10138	Diethylphthalate	84-66-2	6.8 U	6.8	20	1
10138	Dimethylphthalate	131-11-3	6.8 U	6.8	20	1
10138	Bis(2-Ethylhexyl)phthalate	117-81-7	16 J	6.8	20	1
10138	Fluoranthene	206-44-0	0.76 U	0.76	1.9	1
10138	Fluorene	86-73-7	0.76 U	0.76	1.9	1
10138	Indeno(1,2,3-cd)pyrene	193-39-5	0.76 U	0.76	1.9	1
10138	1-Methylnaphthalene	90-12-0	0.76 U	0.76	1.9	1
10138	2-Methylnaphthalene	91-57-6	0.76 U	0.76	1.9	1
10138	Naphthalene	91-20-3	0.76 U	0.76	1.9	1
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20	1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9	1
Pesticides/PCBs	SW-846 8082		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	0.57 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	0.37 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	
01643	Aluminum	7429-90-5	22,500	5.65	22.5	1

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

Sample Description: SL-074-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5C-SB-8.0-9.0

LLI Sample # SW 6152648
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 11:11 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07489 SDG#: DE025-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	7.76	0.999	5.61	1
01650	Calcium	7440-70-2	35,300	6.88	22.5	1
01654	Iron	7439-89-6	22,700	5.29	22.5	1
01656	Lithium	7439-93-2	21.6	0.25	2.2	1
01657	Magnesium	7439-95-4	5,130	2.85	11.2	1
06958	Manganese	7439-96-5	323	0.0876	0.561	1
10145	Phosphorus	7723-14-0	232	0.629	11.2	1
01662	Potassium	7440-09-7	2,280	20.2	56.1	1
01667	Sodium	7440-23-5	599	41.9	112	1
07968	Strontium	7440-24-6	42.7	0.0696	0.561	1
06969	Tin	7440-31-5	2.80 J	1.12	11.2	1
06970	Titanium	7440-32-6	1,170	2.13	5.61	5
10146	Zirconium	7440-67-7	5.36 J	0.943	5.61	1
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.0787 J	0.0680	0.227	2
	Due to the nature of the EPA Method 3050B digestion procedure for ICP-MS, the Laboratory Control Standard and Matrix Spike(s) may exhibit low recoveries for antimony.					
06125	Arsenic	7440-38-2	7.24	0.0680	0.454	2
06126	Barium	7440-39-3	110	0.122	0.454	2
06127	Beryllium	7440-41-7	0.790	0.0181	0.113	2
06128	Cadmium	7440-43-9	0.249	0.0408	0.113	2
06131	Chromium	7440-47-3	26.6	0.136	0.454	2
06132	Cobalt	7440-48-4	6.37	0.0227	0.113	2
06133	Copper	7440-50-8	10.7	0.0748	0.454	2
06135	Lead	7439-92-1	5.15	0.0118	0.227	2
06138	Molybdenum	7439-98-7	0.217	0.0567	0.113	2
06139	Nickel	7440-02-0	14.8	0.113	0.454	2
06141	Selenium	7782-49-2	0.0565 J	0.0454	0.454	2
06142	Silver	7440-22-4	0.0351 J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.296	0.0340	0.113	2
06148	Vanadium	7440-62-2	52.7	0.0249	0.113	2
06149	Zinc	7440-66-6	62.0	0.635	3.40	2
	SW-846 7471A		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	
07332	Fluoride by IC (solid)	16984-48-8	13.4	0.91	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.2 U	10.2	34.0	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.23 U	0.23	1.1	1

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

Sample Description: SL-074-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5C-SB-8.0-9.0

LLI Sample # SW 6152648
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 11:11 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07489 SDG#: DE025-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry ASTM D1498						
01821	Oxidation Reduction Potential	n.a.	497	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.28	0.0100	0.0100	1
Wet Chemistry EPA 160.3 modified						
11624	Moisture CDM	n.a.	11.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

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	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10335SLF026	12/10/2010 12:56	Brian K Graham	1
10138	Selected SV0As in soil by SIM	SW-846 8270C SIM	1	10335SLE026	12/08/2010 00:12	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103400026A	12/07/2010 18:24	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 10:29	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/04/2010 02:36	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 02:36	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/04/2010 02:36	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 02:36	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 02:36	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 02:36	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 02:36	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 02:36	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 02:36	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 02:36	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 02:36	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 10:33	Joanne M Gates	5

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

Sample Description: SL-074-SA5C-SB-8.0-9.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-074-SA5C-SB-8.0-9.0

LLI Sample # SW 6152648
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 11:11 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07489 SDG#: DE025-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 02:36	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 15:30	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/09/2010 08:05	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 15:30	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 15:30	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:55	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10342342202A	12/10/2010 06:00	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10343343201B	12/13/2010 21:05	Carrie E Miller	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10349243201A	12/18/2010 15:47	Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1	10342342202A	12/08/2010 14:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10343343201B	12/09/2010 13:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10335182103A	12/01/2010 12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10335039403A	12/01/2010 12:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10343162401A	12/09/2010 08:36	William C Schwebel	1

Sample Description: SL-070-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5C-SB-4.0-5.0

LLI Sample # SW 6152649
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 13:34 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07045 SDG#: DE025-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	6.8 U	6.8	8.1	0.89
06192	Benzene	71-43-2	0.10 U	0.10	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	8.1	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	0.51 U	0.51	5.0	0.89
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.71 U	0.71	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	0.10 U	0.10	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	0.51 U	0.51	5.0	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	8.1	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	8.1	0.89
06192	Methylene Chloride	75-09-2	1.1 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

Sample Description: SL-070-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5C-SB-4.0-5.0

LLI Sample # SW 6152649
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 13:34 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07045 SDG#: DE025-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.10 U	0.10	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	0.87 J	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	0.10 U	0.10	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	
10326	1,4-Dioxane	123-91-1	4.7 U	4.7	14	20.87
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190 U	190	570	1
04688	Benzidine	92-87-5	1,300 U	1,300	3,800	1
04688	Benzoic acid	65-85-0	190 U	190	570	1
04688	Benzyl alcohol	100-51-6	190 U	190	570	1
04688	4-Bromophenyl-phenylether	101-55-3	19 U	19	190	1
04688	Carbazole	86-74-8	19 U	19	190	1
04688	4-Chloro-3-methylphenol	59-50-7	38 U	38	190	1
04688	4-Chloroaniline	106-47-8	76 U	76	190	1
04688	bis(2-Chloroethoxy)methane	111-91-1	19 U	19	190	1
04688	bis(2-Chloroethyl)ether	111-44-4	19 U	19	190	1
04688	bis(2-Chloroisopropyl)ether	39638-32-9	19 U	19	190	1
04688	2-Chloronaphthalene	91-58-7	19 U	19	190	1
04688	2-Chlorophenol	95-57-8	19 U	19	190	1
04688	4-Chlorophenyl-phenylether	7005-72-3	38 U	38	190	1
04688	Dibenzofuran	132-64-9	19 U	19	190	1
04688	1,2-Dichlorobenzene	95-50-1	19 U	19	190	1
04688	1,3-Dichlorobenzene	541-73-1	19 U	19	190	1
04688	1,4-Dichlorobenzene	106-46-7	19 U	19	190	1
04688	3,3'-Dichlorobenzidine	91-94-1	110 U	110	380	1
04688	2,4-Dichlorophenol	120-83-2	19 U	19	190	1
04688	2,4-Dimethylphenol	105-67-9	38 U	38	190	1
04688	3,5-Dimethylphenol	108-68-9	38 U	38	190	1
04688	4,6-Dinitro-2-methylphenol	534-52-1	190 U	190	570	1
04688	2,4-Dinitrophenol	51-28-5	760 U	760	2,300	1
04688	2,4-Dinitrotoluene	121-14-2	38 U	38	190	1
04688	2,6-Dinitrotoluene	606-20-2	19 U	19	190	1
04688	1,2-Diphenylhydrazine	122-66-7	19 U	19	190	1

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

Sample Description: SL-070-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5C-SB-4.0-5.0

LLI Sample # SW 6152649
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

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Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07045 SDG#: DE025-05

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

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

Sample Description: SL-070-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5C-SB-4.0-5.0

LLI Sample # SW 6152649
LLI Group # 1223249
Account # 13013

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Submitted: 12/01/2010 09:20

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07045 SDG#: DE025-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	N-Nitrosodimethylamine	62-75-9	0.76 U	0.76	1.9	1
10138	Di-n-octylphthalate	117-84-0	6.8 U	6.8	20	1
10138	Phenanthrene	85-01-8	0.76 U	0.76	1.9	1
10138	Pyrene	129-00-0	0.76 U	0.76	1.9	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.7	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	0.57 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	0.37 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						
01643	Aluminum	7429-90-5	13,800	5.48	21.8	1
07914	Boron	7440-42-8	7.90	0.969	5.44	1
01650	Calcium	7440-70-2	3,450	6.68	21.8	1
01654	Iron	7439-89-6	21,400	5.13	21.8	1
01656	Lithium	7439-93-2	21.5	0.24	2.2	1
01657	Magnesium	7439-95-4	5,850	2.77	10.9	1
06958	Manganese	7439-96-5	290	0.0849	0.544	1
10145	Phosphorus	7723-14-0	370	0.610	10.9	1
01662	Potassium	7440-09-7	2,080	19.6	54.4	1
01667	Sodium	7440-23-5	99.8 J	40.6	109	1
07968	Strontium	7440-24-6	16.4	0.0675	0.544	1
06969	Tin	7440-31-5	2.64 J	1.09	10.9	1
06970	Titanium	7440-32-6	1,020	2.07	5.44	5
10146	Zirconium	7440-67-7	3.54 J	0.915	5.44	1
SW-846 6020						
06124	Antimony	7440-36-0	0.0688 J	0.0653	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	9.06	0.0653	0.436	2
06126	Barium	7440-39-3	97.4	0.118	0.436	2
06127	Beryllium	7440-41-7	0.781	0.0174	0.109	2
06128	Cadmium	7440-43-9	0.198	0.0392	0.109	2
06131	Chromium	7440-47-3	26.5	0.131	0.436	2
06132	Cobalt	7440-48-4	7.33	0.0218	0.109	2
06133	Copper	7440-50-8	10.1	0.0719	0.436	2

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

Sample Description: SL-070-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5C-SB-4.0-5.0

LLI Sample # SW 6152649
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 13:34 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07045 SDG#: DE025-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/kg	mg/kg	mg/kg	
06135	Lead	7439-92-1	9.54	0.0113	0.218	2
06138	Molybdenum	7439-98-7	0.871	0.0544	0.109	2
06139	Nickel	7440-02-0	15.0	0.109	0.436	2
06141	Selenium	7782-49-2	0.396 J	0.0436	0.436	2
06142	Silver	7440-22-4	0.0599 J	0.0131	0.109	2
06145	Thallium	7440-28-0	0.308	0.0327	0.109	2
06148	Vanadium	7440-62-2	57.5	0.0240	0.109	2
06149	Zinc	7440-66-6	75.6	0.610	3.27	2
	SW-846 7471A		mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0438 J	0.0032	0.112	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	3.2	0.91	1.1	1
	EPA 314.0		ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.2 U	10.2	34.0	1
	SW-846 7199		mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.23 U	0.23	1.1	1
	ASTM D1498		mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	512	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
	SW-846 9045C modified		Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.72	0.0100	0.0100	1
Wet Chemistry						
	EPA 160.3 modified		%	%	%	
11624	Moisture CDM	n.a.	11.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

General Sample Comments

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

Sample Description: SL-070-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5C-SB-4.0-5.0

LLI Sample # SW 6152649
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 13:34 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07045 SDG#: DE025-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103361AA	12/02/2010 14:28	Chelsea B Eastep	0.89
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 18:30	Jason M Long	20.87
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033523148	12/01/2010 16:36	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033523148	12/01/2010 16:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033523148	12/01/2010 16:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033523148	12/01/2010 16:33	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10335SLF026	12/10/2010 13:22	Brian K Graham	1
10138	Selected SVOCs in soil by SIM	SW-846 8270C SIM	1	10335SLE026	12/08/2010 00:45	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103400026A	12/07/2010 18:43	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 10:37	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/04/2010 02:40	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 02:40	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/04/2010 02:40	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 02:40	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 02:40	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 02:40	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 02:40	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 02:40	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 02:40	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 02:40	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 02:40	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 10:41	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 02:40	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 15:33	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 15:33	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 15:33	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 15:33	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:56	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Conners	1

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

Sample Description: SL-070-SA5C-SB-4.0-5.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5C-SB-4.0-5.0

LLI Sample # SW 6152649
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 13:34 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07045 SDG#: DE025-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10342342202A	12/10/2010 06:14	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10343343201B	12/13/2010 22:41	Carrie E Miller	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10349243201A	12/18/2010 15:59	Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1	10342342202A	12/08/2010 14:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10343343201B	12/09/2010 13:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10335182103A	12/01/2010 12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10335039403A	12/01/2010 12:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10343162401A	12/09/2010 08:36	William C Schwebel	1

Sample Description: SL-070-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5C-SB-9.0-10.0

LLI Sample # SW 6152650
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 13:40 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07091 SDG#: DE025-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	Aniline	62-53-3	190	U 190	580	1
04688	Benidine	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
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

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

Sample Description: SL-070-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5C-SB-9.0-10.0

LLI Sample # SW 6152650
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 13:40 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07091 SDG#: DE025-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	1,2,4-Trichlorobenzene	120-82-1	19 U	19	190	1
04688	2,4,5-Trichlorophenol	95-95-4	38 U	38	190	1
04688	2,4,6-Trichlorophenol	88-06-2	38 U	38	190	1
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/kg	ug/kg	ug/kg	
10138	Acenaphthene	83-32-9	0.77 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	0.78 J	0.77	1.9	1
10138	Benzo(b)fluoranthene	205-99-2	0.91 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	1.4 J	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	12 J	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
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	1.2 J	0.77	1.9	1
10138	Pyrene	129-00-0	0.77 U	0.77	1.9	1
Pesticides/PCBs	SW-846 8082		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.						
Metals	SW-846 6010B		mg/kg	mg/kg	mg/kg	
01643	Aluminum	7429-90-5	30,100	5.58	22.2	1

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

Sample Description: SL-070-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5C-SB-9.0-10.0

LLI Sample # SW 6152650
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 13:40 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07091 SDG#: DE025-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6010B		mg/kg	mg/kg	mg/kg	
07914	Boron	7440-42-8	7.38	0.988	5.55	1
01650	Calcium	7440-70-2	16,400	6.81	22.2	1
01654	Iron	7439-89-6	28,800	5.23	22.2	1
01656	Lithium	7439-93-2	28.2	0.24	2.2	1
01657	Magnesium	7439-95-4	6,120	2.82	11.1	1
06958	Manganese	7439-96-5	286	0.0866	0.555	1
10145	Phosphorus	7723-14-0	145	0.622	11.1	1
01662	Potassium	7440-09-7	2,770	20.0	55.5	1
01667	Sodium	7440-23-5	174	41.4	111	1
07968	Strontium	7440-24-6	42.9	0.0688	0.555	1
06969	Tin	7440-31-5	3.06 J	1.11	11.1	1
06970	Titanium	7440-32-6	1,510	2.11	5.55	5
10146	Zirconium	7440-67-7	6.21	0.933	5.55	1
SW-846 6020						
			mg/kg	mg/kg	mg/kg	
06124	Antimony	7440-36-0	0.100 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	9.10	0.0679	0.453	2
06126	Barium	7440-39-3	176	0.122	0.453	2
06127	Beryllium	7440-41-7	1.06	0.0181	0.113	2
06128	Cadmium	7440-43-9	0.183	0.0408	0.113	2
06131	Chromium	7440-47-3	35.0	0.136	0.453	2
06132	Cobalt	7440-48-4	10.5	0.0226	0.113	2
06133	Copper	7440-50-8	13.7	0.0747	0.453	2
06135	Lead	7439-92-1	7.41	0.0118	0.226	2
06138	Molybdenum	7439-98-7	0.399	0.0566	0.113	2
06139	Nickel	7440-02-0	19.2	0.113	0.453	2
06141	Selenium	7782-49-2	0.0808 J	0.0453	0.453	2
06142	Silver	7440-22-4	0.0653 J	0.0136	0.113	2
06145	Thallium	7440-28-0	0.381	0.0340	0.113	2
06148	Vanadium	7440-62-2	69.8	0.0249	0.113	2
06149	Zinc	7440-66-6	78.2	0.634	3.40	2
SW-846 7471A						
			mg/kg	mg/kg	mg/kg	
00159	Mercury	7439-97-6	0.0088 J	0.0033	0.114	1
Wet Chemistry						
	EPA 300.0		mg/kg	mg/kg	mg/kg	
07332	Fluoride by IC (solid)	16984-48-8	5.3	0.92	1.2	1
EPA 314.0						
			ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	10.4 U	10.4	34.6	1
SW-846 7199						
			mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.23 U	0.23	1.2	1

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

Sample Description: SL-070-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5C-SB-9.0-10.0

LLI Sample # SW 6152650
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 13:40 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07091 SDG#: DE025-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Wet Chemistry		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	512	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	7.97	0.0100	0.0100	1
Wet Chemistry		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	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

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	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10335SLF026	12/10/2010 13:48	Brian K Graham	1
10138	Selected SV0As in soil by SIM	SW-846 8270C SIM	1	10335SLE026	12/08/2010 01:17	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103400026A	12/07/2010 19:01	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 10:44	Joanne M Gates	1
07914	Boron	SW-846 6010B	1	103355708003	12/04/2010 02:51	John W Yanzuk II	1
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 02:51	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/04/2010 02:51	John W Yanzuk II	1
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 02:51	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 02:51	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 02:51	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 02:51	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 02:51	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 02:51	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 02:51	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 02:51	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 10:48	Joanne M Gates	5

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

Sample Description: SL-070-SA5C-SB-9.0-10.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-070-SA5C-SB-9.0-10.0

LLI Sample # SW 6152650
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 13:40 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

07091 SDG#: DE025-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 02:51	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 15:36	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 15:36	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 15:36	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 15:36	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:58	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Conners	1
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10342342202A	12/10/2010 06:29	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10343343201B	12/13/2010 23:05	Carrie E Miller	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10349243201A	12/18/2010 16:25	Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1	10342342202A	12/08/2010 14:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10343343201B	12/09/2010 13:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10335182103A	12/01/2010 12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10335039403A	12/01/2010 12:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	1	10343162401A	12/09/2010 08:36	William C Schwebel	1

Sample Description: SL-043-SA5C-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5C-SB-2.0-3.0

LLI Sample # SW 6152651
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 15:06 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

04323 SDG#: DE025-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Acetone	67-64-1	7.2 U	7.2	8.6	0.98
06192	Benzene	71-43-2	0.11 U	0.11	4.3	0.98
06192	Bromobenzene	108-86-1	0.14 U	0.14	4.3	0.98
06192	Bromochloromethane	74-97-5	0.36 U	0.36	4.3	0.98
06192	Bromodichloromethane	75-27-4	0.09 U	0.09	4.3	0.98
06192	Bromoform	75-25-2	0.43 U	0.43	4.3	0.98
06192	Bromomethane	74-83-9	0.27 U	0.27	4.3	0.98
06192	2-Butanone	78-93-3	1.3 U	1.3	8.6	0.98
06192	n-Butylbenzene	104-51-8	0.13 U	0.13	4.3	0.98
06192	sec-Butylbenzene	135-98-8	0.07 U	0.07	4.3	0.98
06192	tert-Butylbenzene	98-06-6	0.17 U	0.17	4.3	0.98
06192	Carbon Tetrachloride	56-23-5	0.15 U	0.15	4.3	0.98
06192	Chlorobenzene	108-90-7	0.12 U	0.12	4.3	0.98
06192	Chloroethane	75-00-3	0.14 U	0.14	4.3	0.98
06192	2-Chloroethyl Vinyl Ether	110-75-8	0.32 U	0.32	4.3	0.98
06192	Chloroform	67-66-3	0.13 U	0.13	4.3	0.98
06192	Chloromethane	74-87-3	0.36 U	0.36	4.3	0.98
06192	2-Chlorotoluene	95-49-8	0.15 U	0.15	4.3	0.98
06192	4-Chlorotoluene	106-43-4	0.15 U	0.15	4.3	0.98
06192	Chlorotrifluoroethene	79-38-9	0.54 U	0.54	5.4	0.98
06192	1,2-Dibromo-3-chloropropane	96-12-8	0.75 U	0.75	4.3	0.98
06192	Dibromochloromethane	124-48-1	0.21 U	0.21	4.3	0.98
06192	1,2-Dibromoethane	106-93-4	0.18 U	0.18	4.3	0.98
06192	Dibromomethane	74-95-3	0.26 U	0.26	4.3	0.98
06192	1,2-Dichlorobenzene	95-50-1	0.1 U	0.1	4.3	0.98
06192	1,3-Dichlorobenzene	541-73-1	0.13 U	0.13	4.3	0.98
06192	1,4-Dichlorobenzene	106-46-7	0.17 U	0.17	4.3	0.98
06192	Dichlorodifluoromethane	75-71-8	0.13 U	0.13	4.3	0.98
06192	1,1-Dichloroethane	75-34-3	0.11 U	0.11	4.3	0.98
06192	1,2-Dichloroethane	107-06-2	0.16 U	0.16	4.3	0.98
06192	1,1-Dichloroethene	75-35-4	0.42 U	0.42	4.3	0.98
06192	cis-1,2-Dichloroethene	156-59-2	0.21 U	0.21	4.3	0.98
06192	trans-1,2-Dichloroethene	156-60-5	0.13 U	0.13	4.3	0.98
06192	1,2-Dichloropropane	78-87-5	0.18 U	0.18	4.3	0.98
06192	1,3-Dichloropropane	142-28-9	0.09 U	0.09	4.3	0.98
06192	2,2-Dichloropropane	594-20-7	0.18 U	0.18	4.3	0.98
06192	1,1-Dichloropropene	563-58-6	0.14 U	0.14	4.3	0.98
06192	cis-1,3-Dichloropropene	10061-01-5	0.17 U	0.17	4.3	0.98
06192	trans-1,3-Dichloropropene	10061-02-6	0.18 U	0.18	4.3	0.98
06192	Ethylbenzene	100-41-4	0.07 U	0.07	4.3	0.98
06192	Freon 113	76-13-1	0.12 U	0.12	4.3	0.98
06192	Freon 133a	75-88-7	0.54 U	0.54	5.4	0.98
06192	Hexachlorobutadiene	87-68-3	0.15 U	0.15	4.3	0.98
06192	2-Hexanone	591-78-6	1.7 U	1.7	8.6	0.98
06192	Isopropylbenzene	98-82-8	0.07 U	0.07	4.3	0.98
06192	p-Isopropyltoluene	99-87-6	0.12 U	0.12	4.3	0.98
06192	Methyl Tertiary Butyl Ether	1634-04-4	0.23 U	0.23	4.3	0.98
06192	4-Methyl-2-pentanone	108-10-1	0.42 U	0.42	8.6	0.98
06192	Methylene Chloride	75-09-2	0.85 J	0.26	4.3	0.98
06192	n-Propylbenzene	103-65-1	0.07 U	0.07	4.3	0.98

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

Sample Description: SL-043-SA5C-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5C-SB-2.0-3.0

LLI Sample # SW 6152651
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 15:06 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

04323 SDG#: DE025-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/kg	ug/kg	ug/kg	
06192	Styrene	100-42-5	0.11 U	0.11	4.3	0.98
06192	1,1,1,2-Tetrachloroethane	630-20-6	0.12 U	0.12	4.3	0.98
06192	1,1,2,2-Tetrachloroethane	79-34-5	0.25 U	0.25	4.3	0.98
06192	Tetrachloroethene	127-18-4	0.21 U	0.21	4.3	0.98
06192	Toluene	108-88-3	0.09 U	0.09	4.3	0.98
06192	1,2,3-Trichlorobenzene	87-61-6	0.15 U	0.15	4.3	0.98
06192	1,2,4-Trichlorobenzene	120-82-1	0.19 U	0.19	4.3	0.98
06192	1,1,1-Trichloroethane	71-55-6	0.21 U	0.21	4.3	0.98
06192	1,1,2-Trichloroethane	79-00-5	0.29 U	0.29	4.3	0.98
06192	Trichloroethene	79-01-6	0.16 U	0.16	4.3	0.98
06192	Trichlorofluoromethane	75-69-4	0.31 U	0.31	4.3	0.98
06192	1,2,3-Trichloropropane	96-18-4	0.36 U	0.36	4.3	0.98
06192	1,2,4-Trimethylbenzene	95-63-6	0.43 U	0.43	4.3	0.98
06192	1,3,5-Trimethylbenzene	108-67-8	0.11 U	0.11	4.3	0.98
06192	Vinyl Chloride	75-01-4	0.21 U	0.21	4.3	0.98
06192	m+p-Xylene	179601-23-1	0.18 U	0.18	4.3	0.98
06192	o-Xylene	95-47-6	0.18 U	0.18	4.3	0.98
GC/MS	Volatiles	SW-846 8260B SIM	ug/kg	ug/kg	ug/kg	
10326	1,4-Dioxane	123-91-1	5.5 U	5.5	16	24.8
GC/MS	Semivolatiles	SW-846 8270C	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

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

Sample Description: SL-043-SA5C-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5C-SB-2.0-3.0

LLI Sample # SW 6152651
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 15:06 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

04323 SDG#: DE025-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	ug/kg	ug/kg	ug/kg	
04688	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	
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	0.74	U 0.74	1.8	1
10138	Benzo(a)pyrene	50-32-8	0.74	U 0.74	1.8	1
10138	Benzo(b)fluoranthene	205-99-2	0.74	U 0.74	1.8	1
10138	Benzo(g,h,i)perylene	191-24-2	0.74	U 0.74	1.8	1
10138	Benzo(k)fluoranthene	207-08-9	0.74	U 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	0.37	U 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	0.74	U 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	0.74	U 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

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

Sample Description: SL-043-SA5C-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5C-SB-2.0-3.0

LLI Sample # SW 6152651
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 15:06 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

04323 SDG#: DE025-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles SW-846 8270C SIM						
10138	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	0.74 U	0.74	1.8	1
10138	Pyrene	129-00-0	0.74 U	0.74	1.8	1
Pesticides/PCBs SW-846 8082						
10225	Aroclor 5432	63496-31-1	1.1 U	1.1	3.6	1
10225	Aroclor 5442	12642-23-8	1.1 U	1.1	3.6	1
10225	Aroclor 5460	11126-42-4	1.1 U	1.1	3.6	1
10225	PCB-1016	12674-11-2	0.36 U	0.36	1.9	1
10225	PCB-1221	11104-28-2	0.55 U	0.55	1.9	1
10225	PCB-1232	11141-16-5	0.57 U	0.57	1.9	1
10225	PCB-1242	53469-21-9	0.55 U	0.55	1.9	1
10225	PCB-1248	12672-29-6	0.36 U	0.36	1.9	1
10225	PCB-1254	11097-69-1	0.36 U	0.36	1.9	1
10225	PCB-1260	11096-82-5	0.36 U	0.36	1.9	1
10225	PCB-1262	37324-23-5	0.36 U	0.36	1.9	1
10225	PCB-1268	11100-14-4	0.36 U	0.36	1.9	1
The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.						
Metals SW-846 6010B						
01643	Aluminum	7429-90-5	31,300	27.5	109	5
07914	Boron	7440-42-8	17.0 J	4.86	27.3	5
Reporting limits were raised due to interference from the sample matrix.						
01650	Calcium	7440-70-2	6,490	6.69	21.8	1
01654	Iron	7439-89-6	46,200	25.7	109	5
01656	Lithium	7439-93-2	60.2	0.24	2.2	1
01657	Magnesium	7439-95-4	11,400	2.77	10.9	1
06958	Manganese	7439-96-5	327	0.0851	0.546	1
10145	Phosphorus	7723-14-0	640	0.611	10.9	1
01662	Potassium	7440-09-7	3,660	19.6	54.6	1
01667	Sodium	7440-23-5	943	40.7	109	1
07968	Strontium	7440-24-6	50.6	0.0677	0.546	1
06969	Tin	7440-31-5	3.45 J	1.09	10.9	1
06970	Titanium	7440-32-6	2,330	2.07	5.46	5
10146	Zirconium	7440-67-7	5.57	0.917	5.46	1
SW-846 6020						
06124	Antimony	7440-36-0	0.0676 J	0.0649	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	8.26	0.0649	0.432	2
06126	Barium	7440-39-3	108	0.117	0.432	2
06127	Beryllium	7440-41-7	1.35	0.0173	0.108	2
06128	Cadmium	7440-43-9	0.109	0.0389	0.108	2
06131	Chromium	7440-47-3	34.4	0.130	0.432	2
06132	Cobalt	7440-48-4	9.94	0.0216	0.108	2

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

Sample Description: SL-043-SA5C-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5C-SB-2.0-3.0

LLI Sample # SW 6152651
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 15:06 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

04323 SDG#: DE025-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
Metals						
		SW-846 6020	mg/kg	mg/kg	mg/kg	
06133	Copper	7440-50-8	21.0	0.0713	0.432	2
06135	Lead	7439-92-1	7.73	0.0112	0.216	2
06138	Molybdenum	7439-98-7	0.316	0.0540	0.108	2
06139	Nickel	7440-02-0	27.2	0.108	0.432	2
06141	Selenium	7782-49-2	0.131 J	0.0432	0.432	2
06142	Silver	7440-22-4	0.0393 J	0.0130	0.108	2
06145	Thallium	7440-28-0	0.416	0.0324	0.108	2
06148	Vanadium	7440-62-2	56.0	0.0238	0.108	2
06149	Zinc	7440-66-6	123	0.605	3.24	2
		SW-846 7471A	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	
07332	Fluoride by IC (solid)	16984-48-8	5.0	0.88	1.1	1
		EPA 314.0	ug/kg	ug/kg	ug/kg	
10147	Perchlorate in Soil	14797-73-0	9.9 U	9.9	33.1	1
		SW-846 7199	mg/kg	mg/kg	mg/kg	
05892	Hexavalent Chromium by IC	18540-29-9	0.75 J	0.22	1.1	1
		ASTM D1498	mV	mV	mV	
01821	Oxidation Reduction Potential	n.a.	489	10.0	10.0	1
	The oxidation-reduction potential is reported in mV as referred to the standard hydrogen scale.					
		SW-846 9045C modified	Std. Units	Std. Units	Std. Units	
00394	pH	n.a.	8.17	0.0100	0.0100	1
Wet Chemistry						
		EPA 160.3 modified	%	%	%	
11624	Moisture CDM	n.a.	9.3	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
The volatile analysis was performed on soil from SL-043-SA5C-SB-2.5.

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

Sample Description: SL-043-SA5C-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5C-SB-2.0-3.0

LLI Sample # SW 6152651
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 15:06 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

04323 SDG#: DE025-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06192	VOCs in Soil 8260B	SW-846 8260B	1	B103361AA	12/02/2010 14:50	Chelsea B Eastep	0.98
10326	1,4-Dioxane by Isotope DL SIM	SW-846 8260B SIM	1	E103361AA	12/02/2010 18:50	Jason M Long	24.8
08390	GC/MS - HL Encore Prep	SW-846 5035	1	201033523148	12/01/2010 16:39	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	1	201033523148	12/01/2010 16:42	Lois E Hiltz	n.a.
07320	GC/MS - LL DIH20 Encore Prep	SW-846 5035	2	201033523148	12/01/2010 16:42	Lois E Hiltz	n.a.
07578	GC/MS-HL Encore Prep-NC	SW-846 5035	1	201033523148	12/01/2010 16:37	Lois E Hiltz	n.a.
04688	TCL SW846 Semivolatiles Soil	SW-846 8270C	1	10335SLF026	12/10/2010 14:14	Brian K Graham	1
10138	Selected SVOCs in soil by SIM	SW-846 8270C SIM	1	10335SLE026	12/08/2010 01:50	Gregory J Drahovsky	1
10479	BNA Soil Extraction SIM	SW-846 3550B	1	10335SLE026	12/01/2010 21:15	Karen L Beyer	1
00381	BNA Soil Sonication	SW-846 3550B	1	10335SLF026	12/02/2010 07:00	Olivia Arosemena	1
10225	PCBs & PCTs in Soil	SW-846 8082	1	103400026A	12/07/2010 19:20	Richard A Shober	1
00819	Solid Sample Pesticide Extract	SW-846 3550B	1	103400026A	12/07/2010 04:10	Roman Kuropatkin	1
01643	Aluminum	SW-846 6010B	1	103355708003	12/07/2010 11:03	Joanne M Gates	5
07914	Boron	SW-846 6010B	1	103355708003	12/07/2010 11:03	Joanne M Gates	5
01650	Calcium	SW-846 6010B	1	103355708003	12/04/2010 02:55	John W Yanzuk II	1
01654	Iron	SW-846 6010B	1	103355708003	12/07/2010 11:03	Joanne M Gates	5
01656	Lithium	SW-846 6010B	1	103355708003	12/04/2010 02:55	John W Yanzuk II	1
01657	Magnesium	SW-846 6010B	1	103355708003	12/04/2010 02:55	John W Yanzuk II	1
06958	Manganese	SW-846 6010B	1	103355708003	12/04/2010 02:55	John W Yanzuk II	1
10145	Phosphorus	SW-846 6010B	1	103355708003	12/04/2010 02:55	John W Yanzuk II	1
01662	Potassium	SW-846 6010B	1	103355708003	12/04/2010 02:55	John W Yanzuk II	1
01667	Sodium	SW-846 6010B	1	103355708003	12/04/2010 02:55	John W Yanzuk II	1
07968	Strontium	SW-846 6010B	1	103355708003	12/04/2010 02:55	John W Yanzuk II	1
06969	Tin	SW-846 6010B	1	103355708003	12/04/2010 02:55	John W Yanzuk II	1
06970	Titanium	SW-846 6010B	1	103355708003	12/07/2010 11:03	Joanne M Gates	5
10146	Zirconium	SW-846 6010B	1	103355708003	12/04/2010 02:55	John W Yanzuk II	1
06124	Antimony	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
06125	Arsenic	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
06126	Barium	SW-846 6020	1	103351026003D	12/06/2010 15:51	Choon Y Tian	2
06127	Beryllium	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
06128	Cadmium	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
06131	Chromium	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
06132	Cobalt	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
06133	Copper	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
06135	Lead	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
06138	Molybdenum	SW-846 6020	1	103351026003C	12/06/2010 15:51	Choon Y Tian	2
06139	Nickel	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
06141	Selenium	SW-846 6020	1	103351026003B	12/06/2010 15:51	Choon Y Tian	2
06142	Silver	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
06145	Thallium	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
06148	Vanadium	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
06149	Zinc	SW-846 6020	1	103351026003A	12/06/2010 15:51	Choon Y Tian	2
00159	Mercury	SW-846 7471A	1	103355711003	12/02/2010 18:59	Nelli S Markaryan	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	103355708003	12/02/2010 09:06	Denise K Conners	1

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

Sample Description: SL-043-SA5C-SB-2.0-3.0 Soil
SSFL Area IV Collocated Soil Sampling
SL-043-SA5C-SB-2.0-3.0

LLI Sample # SW 6152651
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 15:06 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

04323 SDG#: DE025-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11026	SW SW846 ICP-MS Digest	SW-846 3050B	1	103351026003	12/02/2010 09:30	Denise K Conners	1
05711	SW SW846 Hg Digest	SW-846 7471A modified	1	103355711003	12/02/2010 10:20	Denise K Conners	1
07332	Fluoride by IC (solid)	EPA 300.0	1	10342342202A	12/10/2010 06:44	Ashley M Adams	1
10147	Perchlorate in Soil	EPA 314.0	1	10343343201B	12/13/2010 23:29	Carrie E Miller	1
05892	Hexavalent Chromium by IC	SW-846 7199	1	10349243201A	12/18/2010 16:38	Ashley M Adams	1
01352	Deionized Water Extraction	EPA 300.0	1	10342342202A	12/08/2010 14:00	Nancy J Shoop	1
10129	DI Prep - Perchlorate soil	EPA 314.0	1	10343343201B	12/09/2010 13:55	Nancy J Shoop	1
01821	Oxidation Reduction Potential	ASTM D1498	1	10335182103A	12/01/2010 12:00	Michelle L Lalli	1
00394	pH	SW-846 9045C modified	1	10335039403A	12/01/2010 12:00	Michelle L Lalli	1
02432	Hexavalent Cr Extraction - IC	SW-846 3060A	1	10349243201A	12/15/2010 20:00	Daniel S Smith	1
11624	Moisture CDM	EPA 160.3 modified	2	10344162401A	12/10/2010 11:47	William C Schwebel	1

Sample Description: EB11-SA5C-113010 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5C-113010

LLI Sample # WW 6152652
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 14:10 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

EB-11 SDG#: DE025-08EB

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

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

Sample Description: EB11-SA5C-113010 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5C-113010

LLI Sample # WW 6152652
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 14:10 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

EB-11 SDG#: DE025-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l		ug/l	ug/l	
10904	Methylene Chloride	75-09-2	2	U	2	5	1
10904	n-Propylbenzene	103-65-1	1	U	1	5	1
10904	Styrene	100-42-5	1	U	1	5	1
10904	1,1,1,2-Tetrachloroethane	630-20-6	1	U	1	5	1
10904	1,1,2,2-Tetrachloroethane	79-34-5	1	U	1	5	1
10904	Tetrachloroethene	127-18-4	0.8	U	0.8	5	1
10904	Toluene	108-88-3	0.7	U	0.7	5	1
10904	1,2,3-Trichlorobenzene	87-61-6	1	U	1	5	1
10904	1,2,4-Trichlorobenzene	120-82-1	1	U	1	5	1
10904	1,1,1-Trichloroethane	71-55-6	0.8	U	0.8	5	1
10904	1,1,2-Trichloroethane	79-00-5	0.8	U	0.8	5	1
10904	Trichloroethene	79-01-6	1	U	1	5	1
10904	Trichlorofluoromethane	75-69-4	2	U	2	5	1
10904	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10904	1,2,4-Trimethylbenzene	95-63-6	1	U	1	5	1
10904	1,3,5-Trimethylbenzene	108-67-8	1	U	1	5	1
10904	Vinyl Chloride	75-01-4	1	U	1	5	1
10904	m+p-Xylene	179601-23-1	0.8	U	0.8	5	1
10904	o-Xylene	95-47-6	0.8	U	0.8	5	1
GC/MS	Volatiles	SW-846 8260B SIM	ug/l		ug/l	ug/l	
00527	1,4-Dioxane	123-91-1	0.5	U	0.5	2.0	1
GC/MS	Semivolatiles	SW-846 8270C	ug/l		ug/l	ug/l	
04678	Aniline	62-53-3	1	U	1	5	1
04678	Benzidine	92-87-5	21	U	21	64	1
04678	Benzoic acid	65-85-0	6	U	6	16	1
04678	Benzyl alcohol	100-51-6	5	U	5	16	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	11	1
04678	3,5-Dimethylphenol	108-68-9	3	U	3	11	1
04678	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
04678	2,4-Dinitrophenol	51-28-5	11	U	11	32	1
04678	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1

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

Sample Description: EB11-SA5C-113010 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5C-113010

LLI Sample # WW 6152652
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 14:10 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

EB-11 SDG#: DE025-08EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	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	16	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	11	U	11	32	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	16	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
Select compounds were outside of QC limits in the LCS/LCSD associated with this sample. Sufficient sample was unavailable to repeat the analysis.							
Reporting limits were raised due to limited sample volume.							
GC/MS	Semivolatiles	SW-846 8270C SIM	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	0.20	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	0.066	J	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	0.22	J	0.050	1.0	1
10137	Fluoranthene	206-44-0	0.010	U	0.010	0.050	1

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

Sample Description: EB11-SA5C-113010 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5C-113010

LLI Sample # WW 6152652
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 14:10 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

EB-11 SDG#: DE025-08EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C SIM	ug/l	ug/l	ug/l	
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	0.034 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	0.050 U	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

Several compounds were not spiked into the LCS/LCSD associated with this sample due to a laboratory error. Sufficient sample was unavailable to repeat the analysis.

Pesticides/PCBs		SW-846 8082	ug/l		ug/l	ug/l	
10227	Aroclor 5432	63496-31-1	0.10	U	0.10	0.50	1
10227	Aroclor 5442	12642-23-8	0.10	U	0.10	0.50	1
10227	Aroclor 5460	11126-42-4	0.10	U	0.10	0.50	1
10227	PCB-1016	12674-11-2	0.10	U	0.10	0.50	1
10227	PCB-1221	11104-28-2	0.10	U	0.10	0.50	1
10227	PCB-1232	11141-16-5	0.20	U	0.20	0.50	1
10227	PCB-1242	53469-21-9	0.10	U	0.10	0.50	1
10227	PCB-1248	12672-29-6	0.10	U	0.10	0.50	1
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	
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	0.0702	U	0.0702	0.200	1
01754	Iron	7439-89-6	0.0697	J	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	0.0011	J	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		
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

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

Sample Description: EB11-SA5C-113010 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5C-113010

LLI Sample # WW 6152652
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 14:10 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

EB-11 SDG#: DE025-08EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
	SW-846 6020		mg/l	mg/l	mg/l	
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	0.000052 U	0.000052	0.0010	1
06038	Molybdenum	7439-98-7	0.00041 J	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	0.0040 U	0.0040	0.0150	1
	SW-846 7470A		mg/l	mg/l	mg/l	
00259	Mercury	7439-97-6	0.000056 U	0.000056	0.00020	1
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01504	Fluoride	16984-48-8	0.080 U	0.080	0.10	1
	EPA 314.0		ug/l	ug/l	ug/l	
06019	Perchlorate	14797-73-0	0.70 U	0.70	2.0	1
	SW-846 7199		ug/l	ug/l	ug/l	
06467	Hexavalent Chromium (water)	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	VOCs in Water 8260B	SW-846 8260B	1	Y103352AA	12/02/2010 01:05	Stephanie A Selis	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103351AA	12/01/2010 19:25	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103351AA	12/01/2010 19:25	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103352AA	12/02/2010 01:05	Stephanie A Selis	1
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10337WAB026	12/10/2010 14:54	Brian K Graham	1
10137	Selected SVOCs in water by SIM	SW-846 8270C SIM	1	10337WAF026	12/07/2010 23:06	Gregory J Drahovsky	1

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

Sample Description: EB11-SA5C-113010 Water
SSFL Area IV Collocated Soil Sampling
EB11-SA5C-113010

LLI Sample # WW 6152652
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 14:10 by PH

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

EB-11 SDG#: DE025-08EB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00813	BNA Water Extraction	SW-846 3510C	1	10337WAB026	12/04/2010 08:30	Olivia Arosemena	1
10466	BNA Water Extraction SIM	SW-846 3510C	1	10337WAF026	12/04/2010 15:30	Timothy J Attenberger	1
10227	PCBs & PCTs in Water	SW-846 8082	1	103400007A	12/07/2010 15:56	Richard A Shober	1
11117	PCB Waters Extraction	SW-846 3510C	1	103400007A	12/06/2010 13:30	Olivia I Santiago	1
01743	Aluminum	SW-846 6010B	1	103401848002	12/08/2010 03:45	Tara L Snyder	1
08014	Boron	SW-846 6010B	1	103401848002	12/08/2010 03:45	Tara L Snyder	1
01750	Calcium	SW-846 6010B	1	103401848002	12/09/2010 10:01	Joanne M Gates	1
01754	Iron	SW-846 6010B	1	103401848002	12/08/2010 03:45	Tara L Snyder	1
01756	Lithium	SW-846 6010B	1	103401848002	12/09/2010 07:44	Joanne M Gates	1
01757	Magnesium	SW-846 6010B	1	103401848002	12/08/2010 03:45	Tara L Snyder	1
07058	Manganese	SW-846 6010B	1	103401848002	12/08/2010 03:45	Tara L Snyder	1
10143	Phosphorus	SW-846 6010B	1	103401848002	12/08/2010 03:45	Tara L Snyder	1
01762	Potassium	SW-846 6010B	1	103401848002	12/09/2010 07:44	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	103401848002	12/09/2010 07:44	Joanne M Gates	1
08068	Strontium	SW-846 6010B	1	103401848002	12/08/2010 03:45	Tara L Snyder	1
07069	Tin	SW-846 6010B	1	103401848002	12/08/2010 03:45	Tara L Snyder	1
07070	Titanium	SW-846 6010B	1	103401848002	12/08/2010 03:45	Tara L Snyder	1
10144	Zirconium	SW-846 6010B	1	103401848002	12/09/2010 07:44	Joanne M Gates	1
06024	Antimony	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
06025	Arsenic	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
06026	Barium	SW-846 6020	2	103406050001D	12/08/2010 15:03	Choon Y Tian	1
06027	Beryllium	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
06028	Cadmium	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
06031	Chromium	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
06032	Cobalt	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
06033	Copper	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
06035	Lead	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
06038	Molybdenum	SW-846 6020	2	103406050001C	12/08/2010 15:03	Choon Y Tian	1
06039	Nickel	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
06041	Selenium	SW-846 6020	2	103406050001B	12/08/2010 15:03	Choon Y Tian	1
06042	Silver	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
06045	Thallium	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
06048	Vanadium	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
06049	Zinc	SW-846 6020	2	103406050001A	12/08/2010 15:03	Choon Y Tian	1
00259	Mercury	SW-846 7470A	1	103405713004	12/07/2010 08:00	Damary Valentin	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	103401848002	12/06/2010 18:45	Mirit S Shenouda	1
06050	ICP/MS SW-846 Water Digest	SW-846 3020A	1	103406050001	12/06/2010 18:45	Mirit S Shenouda	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	103405713004	12/06/2010 15:35	Nelli S Markaryan	1
01504	Fluoride	EPA 300.0	1	10336196901A	12/03/2010 01:00	Ashley M Adams	1
06019	Perchlorate	EPA 314.0	1	10352658701A	12/18/2010 13:47	Venia B McFadden	1
06467	Hexavalent Chromium (water)	SW-846 7199	1	10335621301A	12/01/2010 10:47	William L Hamaker Jr	1

Sample Description: TB-113010 Water
SSFL Area IV Collocated Soil Sampling
TB-113010

LLI Sample # WW 6152653
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 15:30

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

TB130 SDG#: DE025-09TB*

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

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

Sample Description: TB-113010 Water
SSFL Area IV Collocated Soil Sampling
TB-113010

LLI Sample # WW 6152653
LLI Group # 1223249
Account # 13013

Project Name: SSFL Area IV Collocated Soil Sampling

Collected: 11/30/2010 15:30

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

Submitted: 12/01/2010 09:20

Reported: 12/21/2010 09:43

TB130 SDG#: DE025-09TB*

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

General Sample Comments

State of California Lab Certification No. 2501

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

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10904	VOCs in Water 8260B	SW-846 8260B	1	Y103352AA	12/02/2010 01:26	Stephanie A Selis	1
00527	1,4-Dioxane by Isotope Dil SIM	SW-846 8260B SIM	1	E103351AA	12/01/2010 19:45	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E103351AA	12/01/2010 19:45	Sara E Johnson	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y103352AA	12/02/2010 01:26	Stephanie A Selis	1

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/21/10 at 09:43 AM

Group Number: 1223249

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: B103361AA Sample number(s): 6152645, 6152647, 6152649, 6152651									
Acetone	6.7 U	6.7	8.0	ug/kg	174	161	32-209	8	30
Benzene	0.10 U	0.10	4.0	ug/kg	98	99	80-120	1	30
Bromobenzene	0.13 U	0.13	4.0	ug/kg	89	91	79-120	2	30
Bromochloromethane	0.33 U	0.33	4.0	ug/kg	99	97	79-124	1	30
Bromodichloromethane	0.08 U	0.08	4.0	ug/kg	93	92	78-120	1	30
Bromoform	0.40 U	0.40	4.0	ug/kg	94	89	70-120	6	30
Bromomethane	0.25 U	0.25	4.0	ug/kg	79	82	32-162	3	30
2-Butanone	1.2 U	1.2	8.0	ug/kg	123	115	46-153	7	30
n-Butylbenzene	0.12 U	0.12	4.0	ug/kg	92	97	72-120	5	30
sec-Butylbenzene	0.06 U	0.06	4.0	ug/kg	92	97	75-120	5	30
tert-Butylbenzene	0.16 U	0.16	4.0	ug/kg	87	92	75-120	6	30
Carbon Tetrachloride	0.14 U	0.14	4.0	ug/kg	100	103	69-122	2	30
Chlorobenzene	0.11 U	0.11	4.0	ug/kg	93	94	80-120	1	30
Chloroethane	0.13 U	0.13	4.0	ug/kg	81	85	37-154	5	30
2-Chloroethyl Vinyl Ether	0.30 U	0.30	4.0	ug/kg	102	101	43-146	1	30
Chloroform	0.12 U	0.12	4.0	ug/kg	98	99	80-120	1	30
Chloromethane	0.33 U	0.33	4.0	ug/kg	89	87	54-132	2	30
2-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	90	93	78-120	3	30
4-Chlorotoluene	0.14 U	0.14	4.0	ug/kg	90	94	79-120	4	30
Chlorotrifluoroethene	0.50 U	0.50	5.0	ug/kg	94	100	22-131	6	30
1,2-Dibromo-3-chloropropane	0.70 U	0.70	4.0	ug/kg	91	83	58-120	9	30
Dibromochloromethane	0.20 U	0.20	4.0	ug/kg	93	91	77-120	2	30
1,2-Dibromoethane	0.17 U	0.17	4.0	ug/kg	93	90	80-120	4	30
Dibromomethane	0.24 U	0.24	4.0	ug/kg	97	94	80-120	3	30
1,2-Dichlorobenzene	0.09 U	0.09	4.0	ug/kg	92	93	79-120	0	30
1,3-Dichlorobenzene	0.12 U	0.12	4.0	ug/kg	89	92	78-120	3	30
1,4-Dichlorobenzene	0.16 U	0.16	4.0	ug/kg	90	93	79-120	3	30
Dichlorodifluoromethane	0.12 U	0.12	4.0	ug/kg	72	75	20-120	5	30
1,1-Dichloroethane	0.10 U	0.10	4.0	ug/kg	95	99	80-120	3	30
1,2-Dichloroethane	0.15 U	0.15	4.0	ug/kg	99	97	71-129	2	30
1,1-Dichloroethene	0.39 U	0.39	4.0	ug/kg	100	104	73-123	5	30
cis-1,2-Dichloroethene	0.19 U	0.19	4.0	ug/kg	97	99	80-120	3	30
trans-1,2-Dichloroethene	0.12 U	0.12	4.0	ug/kg	96	103	79-120	7	30
1,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	94	95	80-120	1	30
1,3-Dichloropropane	0.08 U	0.08	4.0	ug/kg	92	91	80-120	1	30
2,2-Dichloropropane	0.17 U	0.17	4.0	ug/kg	97	100	72-123	4	30
1,1-Dichloropropene	0.13 U	0.13	4.0	ug/kg	96	100	77-120	4	30
cis-1,3-Dichloropropene	0.16 U	0.16	4.0	ug/kg	88	89	80-120	1	30
trans-1,3-Dichloropropene	0.17 U	0.17	4.0	ug/kg	88	87	77-120	1	30
Ethylbenzene	0.06 U	0.06	4.0	ug/kg	93	96	80-120	3	30
Freon 113	0.11 U	0.11	4.0	ug/kg	102	107	61-126	5	30
Freon 133a	0.50 U	0.50	5.0	ug/kg	89	93	78-120	4	30
Hexachlorobutadiene	0.14 U	0.14	4.0	ug/kg	90	94	57-120	4	30
2-Hexanone	1.6 U	1.6	8.0	ug/kg	81	76	45-155	7	30
Isopropylbenzene	0.06 U	0.06	4.0	ug/kg	95	97	76-120	2	30
p-Isopropyltoluene	0.11 U	0.11	4.0	ug/kg	92	96	75-120	5	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: 12/21/10 at 09:43 AM

Group Number: 1223249

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Methyl Tertiary Butyl Ether	0.21 U	0.21	4.0	ug/kg	95	94	74-121	2	30
4-Methyl-2-pentanone	0.39 U	0.39	8.0	ug/kg	74	67	61-134	10	30
Methylene Chloride	0.83 J	0.24	4.0	ug/kg	95	96	76-124	1	30
n-Propylbenzene	0.07 U	0.07	4.0	ug/kg	94	98	77-120	4	30
Styrene	0.10 U	0.10	4.0	ug/kg	93	93	76-120	0	30
1,1,1,2-Tetrachloroethane	0.11 U	0.11	4.0	ug/kg	94	95	80-120	1	30
1,1,2,2-Tetrachloroethane	0.23 U	0.23	4.0	ug/kg	88	85	71-123	4	30
Tetrachloroethene	0.20 U	0.20	4.0	ug/kg	96	98	77-120	1	30
Toluene	0.11 J	0.08	4.0	ug/kg	93	96	80-120	3	30
1,2,3-Trichlorobenzene	0.14 U	0.14	4.0	ug/kg	90	88	64-120	2	30
1,2,4-Trichlorobenzene	0.18 U	0.18	4.0	ug/kg	90	89	68-120	0	30
1,1,1-Trichloroethane	0.20 U	0.20	4.0	ug/kg	93	97	71-125	4	30
1,1,2-Trichloroethane	0.27 U	0.27	4.0	ug/kg	92	90	80-120	2	30
Trichloroethene	0.15 U	0.15	4.0	ug/kg	95	97	80-120	2	30
Trichlorofluoromethane	0.29 U	0.29	4.0	ug/kg	88	91	58-133	4	30
1,2,3-Trichloropropane	0.33 U	0.33	4.0	ug/kg	89	85	71-123	4	30
1,2,4-Trimethylbenzene	0.40 U	0.40	4.0	ug/kg	92	96	79-120	4	30
1,3,5-Trimethylbenzene	0.10 U	0.10	4.0	ug/kg	92	96	78-120	4	30
Vinyl Chloride	0.20 U	0.20	4.0	ug/kg	81	86	53-120	6	30
m+p-Xylene	0.17 U	0.17	4.0	ug/kg	95	97	80-120	2	30
o-Xylene	0.17 U	0.17	4.0	ug/kg	92	93	80-120	1	30

Batch number: E103351AA
1,4-Dioxane

Sample number(s): 6152652-6152653
0.5 U 0.5 2.0 ug/l 97 60-132

Batch number: E103361AA
1,4-Dioxane

Sample number(s): 6152645, 6152647, 6152649, 6152651
5.0 U 5.0 15 ug/kg 95 101 70-130 6 30

Batch number: Y103352AA

Sample number(s): 6152652-6152653

Acetone	6 U	6.	20	ug/l	108	121	49-234	11	30
Benzene	0.5 U	0.5	5	ug/l	98	97	79-120	1	30
Bromobenzene	1 U	1.	5	ug/l	103	103	80-120	0	30
Bromochloromethane	1 U	1.	5	ug/l	95	93	80-120	2	30
Bromodichloromethane	1 U	1.	5	ug/l	92	91	80-120	1	30
Bromoform	1 U	1.	5	ug/l	91	89	61-120	2	30
Bromomethane	1 U	1.	5	ug/l	97	98	44-120	0	30
2-Butanone	3 U	3.	10	ug/l	107	107	66-151	0	30
n-Butylbenzene	1 U	1.	5	ug/l	99	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	100	100	75-123	1	30
Chlorobenzene	0.8 U	0.8	5	ug/l	96	95	80-120	1	30
Chloroethane	1 U	1.	5	ug/l	96	93	49-129	3	30
2-Chloroethyl Vinyl Ether	2 U	2.	10	ug/l	109	110	56-129	1	30
Chloroform	0.8 U	0.8	5	ug/l	99	98	77-122	1	30
Chloromethane	1 U	1.	5	ug/l	85	84	60-129	1	30
2-Chlorotoluene	1 U	1.	5	ug/l	103	104	80-120	1	30
4-Chlorotoluene	1 U	1.	5	ug/l	98	98	80-120	0	30
Chlorotrifluoroethene	2 U	2.	5	ug/l	96	93	38-136	3	30
1,2-Dibromo-3-chloropropane	2 U	2.	5	ug/l	113	110	66-120	2	30
Dibromochloromethane	1 U	1.	5	ug/l	92	92	80-120	1	30
1,2-Dibromoethane	1 U	1.	5	ug/l	99	98	80-120	0	30
Dibromomethane	1 U	1.	5	ug/l	94	94	80-120	0	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	97	95	80-120	2	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	100	99	80-120	1	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	98	96	80-120	2	30
Dichlorodifluoromethane	2 U	2.	5	ug/l	73	73	47-120	0	30
1,1-Dichloroethane	1 U	1.	5	ug/l	102	101	79-120	0	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: 12/21/10 at 09:43 AM

Group Number: 1223249

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichloroethane	1 U	1.	5	ug/l	100	99	70-130	1	30
1,1-Dichloroethene	0.8 U	0.8	5	ug/l	99	99	74-123	0	30
cis-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	99	99	80-120	1	30
trans-1,2-Dichloroethene	0.8 U	0.8	5	ug/l	98	98	80-120	0	30
1,2-Dichloropropane	1 U	1.	5	ug/l	96	96	78-120	0	30
1,3-Dichloropropane	1 U	1.	5	ug/l	100	98	80-120	2	30
2,2-Dichloropropane	1 U	1.	5	ug/l	93	93	77-124	1	30
1,1-Dichloropropene	1 U	1.	5	ug/l	98	99	80-120	1	30
cis-1,3-Dichloropropene	1 U	1.	5	ug/l	88	87	80-120	1	30
trans-1,3-Dichloropropene	1 U	1.	5	ug/l	92	92	79-120	1	30
Ethylbenzene	0.8 U	0.8	5	ug/l	100	98	79-120	2	30
Freon 113	2 U	2.	10	ug/l	113	112	69-128	1	30
Freon 133a	2 U	2.	5	ug/l	99	97	77-120	1	30
Hexachlorobutadiene	2 U	2.	5	ug/l	92	96	58-120	3	30
2-Hexanone	3 U	3.	10	ug/l	108	110	65-136	2	30
Isopropylbenzene	1 U	1.	5	ug/l	97	97	77-120	0	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	95	96	76-120	1	30
4-Methyl-2-pentanone	3 U	3.	10	ug/l	104	105	70-121	1	30
Methylene Chloride	2 U	2.	5	ug/l	98	94	80-120	4	30
n-Propylbenzene	1 U	1.	5	ug/l	110	110	80-120	0	30
Styrene	1 U	1.	5	ug/l	96	95	80-120	1	30
1,1,1,2-Tetrachloroethane	1 U	1.	5	ug/l	98	97	80-120	1	30
1,1,2,2-Tetrachloroethane	1 U	1.	5	ug/l	111	109	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	99	99	79-120	0	30
1,2,3-Trichlorobenzene	1 U	1.	5	ug/l	96	96	65-120	0	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	96	95	67-120	1	30
1,1,1-Trichloroethane	0.8 U	0.8	5	ug/l	101	100	75-127	1	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	95	94	80-120	2	30
Trichlorofluoromethane	2 U	2.	5	ug/l	97	98	64-129	1	30
1,2,3-Trichloropropane	1 U	1.	5	ug/l	108	110	80-120	1	30
1,2,4-Trimethylbenzene	1 U	1.	5	ug/l	105	105	74-120	0	30
1,3,5-Trimethylbenzene	1 U	1.	5	ug/l	104	103	75-120	1	30
Vinyl Chloride	1 U	1.	5	ug/l	80	82	65-125	2	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	93	80-120	2	30

Batch number: 10335SLE026

Sample number(s): 6152645-6152651

Acenaphthene	0.67 U	0.67	1.7	ug/kg	89		63-120
Acenaphthylene	0.33 U	0.33	1.7	ug/kg	85		60-120
Anthracene	0.33 U	0.33	1.7	ug/kg	88		55-120
Benzo(a)anthracene	0.67 U	0.67	1.7	ug/kg	90		74-120
Benzo(a)pyrene	0.67 U	0.67	1.7	ug/kg	86		58-129
Benzo(b)fluoranthene	0.67 U	0.67	1.7	ug/kg	102		63-143
Benzo(g,h,i)perylene	0.67 U	0.67	1.7	ug/kg	82		44-138
Benzo(k)fluoranthene	0.67 U	0.67	1.7	ug/kg	89		66-137
Butylbenzylphthalate	6.0 U	6.0	18	ug/kg	90		65-131
Di-n-butylphthalate	6.0 U	6.0	18	ug/kg	103		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	79		62-142
Diethylphthalate	6.0 U	6.0	18	ug/kg	94		68-125
Dimethylphthalate	6.0 U	6.0	18	ug/kg	95		70-130
Bis(2-Ethylhexyl)phthalate	6.0 U	6.0	18	ug/kg	101		67-143
Fluoranthene	0.67 U	0.67	1.7	ug/kg	92		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	82		62-141

*- Outside of specification

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

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

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

Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/21/10 at 09:43 AM

Group Number: 1223249

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	89		72-120		
2-Methylnaphthalene	0.67 U	0.67	1.7	ug/kg	79		62-120		
Naphthalene	0.67 U	0.67	1.7	ug/kg	84		67-120		
N-Nitrosodimethylamine	0.67 U	0.67	1.7	ug/kg	80		39-148		
Di-n-octylphthalate	6.0 U	6.0	18	ug/kg	96		55-176		
Phenanthrene	0.67 U	0.67	1.7	ug/kg	88		75-120		
Pyrene	0.67 U	0.67	1.7	ug/kg	88		56-121		
Batch number: 10335SLF026 Sample number(s): 6152645-6152651									
Aniline	170 U	170.	500	ug/kg	73		10-107		
Benzidine	1,200 U	1,200.	3,300	ug/kg	57		15-121		
Benzoic acid	170 U	170.	500	ug/kg	87		10-154		
Benzyl alcohol	170 U	170.	500	ug/kg	92		68-111		
4-Bromophenyl-phenylether	17 U	17.	170	ug/kg	100		79-117		
Carbazole	17 U	17.	170	ug/kg	97		77-113		
4-Chloro-3-methylphenol	33 U	33.	170	ug/kg	91		74-119		
4-Chloroaniline	67 U	67.	170	ug/kg	61		10-110		
bis(2-Chloroethoxy)methane	17 U	17.	170	ug/kg	88		70-118		
bis(2-Chloroethyl)ether	17 U	17.	170	ug/kg	85		70-104		
bis(2-Chloroisopropyl)ether	17 U	17.	170	ug/kg	72		68-131		
2-Chloronaphthalene	17 U	17.	170	ug/kg	81		67-127		
2-Chlorophenol	17 U	17.	170	ug/kg	92		72-112		
4-Chlorophenyl-phenylether	33 U	33.	170	ug/kg	99		79-110		
Dibenzofuran	17 U	17.	170	ug/kg	97		79-108		
1,2-Dichlorobenzene	17 U	17.	170	ug/kg	84		79-102		
1,3-Dichlorobenzene	17 U	17.	170	ug/kg	81		70-98		
1,4-Dichlorobenzene	17 U	17.	170	ug/kg	82		74-106		
3,3'-Dichlorobenzidine	100 U	100.	330	ug/kg	86		38-105		
2,4-Dichlorophenol	17 U	17.	170	ug/kg	99		75-111		
2,4-Dimethylphenol	33 U	33.	170	ug/kg	93		72-111		
3,5-Dimethylphenol	33 U	33.	170	ug/kg	105		70-130		
4,6-Dinitro-2-methylphenol	170 U	170.	500	ug/kg	82		53-110		
2,4-Dinitrophenol	670 U	670.	2,000	ug/kg	73		37-120		
2,4-Dinitrotoluene	33 U	33.	170	ug/kg	96		73-115		
2,6-Dinitrotoluene	17 U	17.	170	ug/kg	94		79-115		
1,2-Diphenylhydrazine	17 U	17.	170	ug/kg	93		77-111		
Hexachlorobenzene	17 U	17.	170	ug/kg	106		78-116		
Hexachlorobutadiene	67 U	67.	170	ug/kg	90		70-112		
Hexachlorocyclopentadiene	170 U	170.	500	ug/kg	80		46-115		
Hexachloroethane	17 U	17.	170	ug/kg	77		68-105		
Isophorone	17 U	17.	170	ug/kg	84		69-110		
2-Methylphenol	33 U	33.	170	ug/kg	86		66-110		
4-Methylphenol	33 U	33.	170	ug/kg	87		66-117		
2-Nitroaniline	17 U	17.	170	ug/kg	93		78-116		
3-Nitroaniline	33 U	33.	170	ug/kg	91		62-109		
4-Nitroaniline	67 U	67.	170	ug/kg	75		49-98		
Nitrobenzene	17 U	17.	170	ug/kg	85		71-104		
2-Nitrophenol	17 U	17.	170	ug/kg	91		81-114		
4-Nitrophenol	170 U	170.	500	ug/kg	75		56-118		

*- 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: 12/21/10 at 09:43 AM

Group Number: 1223249

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS D %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitroso-di-n-propylamine	17 U	17.	170	ug/kg	78		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	82		58-112		
1,2,4-Trichlorobenzene	17 U	17.	170	ug/kg	94		73-108		
2,4,5-Trichlorophenol	33 U	33.	170	ug/kg	99		76-107		
2,4,6-Trichlorophenol	33 U	33.	170	ug/kg	100		78-111		
Batch number: 10337WAB026 Sample number(s): 6152652									
Aniline	1 U	1.	5	ug/l	57	74	49-101	26	30
Benzidine	20 U	20.	60	ug/l	49	75	20-109	41*	30
Benzoic acid	6 U	6.	15	ug/l	22	0*	10-69	200*	30
Benzyl alcohol	5 U	5.	15	ug/l	84	77	66-97	8	30
4-Bromophenyl-phenylether	1 U	1.	5	ug/l	93	93	82-117	0	30
Carbazole	1 U	1.	5	ug/l	89	89	81-114	0	30
4-Chloro-3-methylphenol	1 U	1.	5	ug/l	96	94	70-123	2	30
4-Chloroaniline	1 U	1.	5	ug/l	55	83	42-124	41*	30
bis(2-Chloroethoxy)methane	1 U	1.	5	ug/l	91	93	74-124	2	30
bis(2-Chloroethyl)ether	1 U	1.	5	ug/l	92	90	77-108	3	30
bis(2-Chloroisopropyl)ether	1 U	1.	5	ug/l	92	88	62-127	4	30
2-Chloronaphthalene	2 U	2.	5	ug/l	92	93	54-132	1	30
2-Chlorophenol	1 U	1.	5	ug/l	91	88	77-108	3	30
4-Chlorophenyl-phenylether	2 U	2.	5	ug/l	93	93	82-111	0	30
Dibenzofuran	1 U	1.	5	ug/l	91	94	83-108	3	30
1,2-Dichlorobenzene	1 U	1.	5	ug/l	85	83	67-108	3	30
1,3-Dichlorobenzene	1 U	1.	5	ug/l	84	79	63-110	6	30
1,4-Dichlorobenzene	1 U	1.	5	ug/l	87	80	65-113	7	30
3,3'-Dichlorobenzidine	2 U	2.	5	ug/l	67	85	49-111	25	30
2,4-Dichlorophenol	1 U	1.	5	ug/l	96	95	80-109	1	30
2,4-Dimethylphenol	3 U	3.	10	ug/l	92	93	72-110	1	30
3,5-Dimethylphenol	3 U	3.	10	ug/l	108	109	70-130	1	30
4,6-Dinitro-2-methylphenol	5 U	5.	15	ug/l	71*	68*	78-119	5	30
2,4-Dinitrophenol	10 U	10.	30	ug/l	47*	32*	64-120	37*	30
2,4-Dinitrotoluene	1 U	1.	5	ug/l	91	92	81-115	2	30
2,6-Dinitrotoluene	1 U	1.	5	ug/l	95	90	85-115	5	30
1,2-Diphenylhydrazine	1 U	1.	5	ug/l	97	95	78-116	1	30
Hexachlorobenzene	1 U	1.	5	ug/l	92	92	81-118	0	30
Hexachlorobutadiene	1 U	1.	5	ug/l	89	89	57-124	0	30
Hexachlorocyclopentadiene	5 U	5.	15	ug/l	37	39	10-118	5	30
Hexachloroethane	1 U	1.	5	ug/l	81	77	52-113	5	30
Isophorone	1 U	1.	5	ug/l	90	93	74-117	4	30
2-Methylphenol	1 U	1.	5	ug/l	89	84	64-101	6	30
4-Methylphenol	2 U	2.	5	ug/l	87	83	61-103	4	30
2-Nitroaniline	1 U	1.	5	ug/l	87	91	83-116	5	30
3-Nitroaniline	1 U	1.	5	ug/l	85	88	74-113	3	30
4-Nitroaniline	1 U	1.	5	ug/l	70	78	59-100	10	30
Nitrobenzene	1 U	1.	5	ug/l	90	91	75-109	1	30
2-Nitrophenol	1 U	1.	5	ug/l	88	88	86-120	1	30
4-Nitrophenol	10 U	10.	30	ug/l	38	31	16-78	23	30
N-Nitroso-di-n-propylamine	1 U	1.	5	ug/l	93	87	69-110	6	30
N-Nitrosodiphenylamine	2 U	2.	5	ug/l	91	92	67-136	2	30
Pentachlorophenol	3 U	3.	15	ug/l	69	67	53-110	2	30
Phenol	1 U	1.	5	ug/l	47	44	29-67	5	30
1,2,4-Trichlorobenzene	1 U	1.	5	ug/l	87	89	71-112	3	30
2,4,5-Trichlorophenol	1 U	1.	5	ug/l	90	90	79-107	0	30
2,4,6-Trichlorophenol	1 U	1.	5	ug/l	93	97	81-113	4	30

*- Outside of specification

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/21/10 at 09:43 AM

Group Number: 1223249

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 10337WAF026									
Sample number(s): 6152652									
Acenaphthene	0.010 U	0.010	0.050	ug/l	88	84	74-109	5	30
Acenaphthylene	0.010 U	0.010	0.050	ug/l	89	86	70-110	4	30
Anthracene	0.010 U	0.010	0.050	ug/l	90	88	66-111	3	30
Benzo(a)anthracene	0.010 U	0.010	0.050	ug/l	96	90	72-114	7	30
Benzo(a)pyrene	0.010 U	0.010	0.050	ug/l	89	85	64-115	5	30
Benzo(b)fluoranthene	0.010 U	0.010	0.050	ug/l	92	89	69-123	3	30
Benzo(g,h,i)perylene	0.010 U	0.010	0.050	ug/l	82	79	68-125	5	30
Benzo(k)fluoranthene	0.010 U	0.010	0.050	ug/l	92	88	72-122	5	30
Butylbenzylphthalate	0.050 U	0.050	1.0	ug/l	0*	0*	70-130	0	30
Di-n-butylphthalate	0.050 U	0.050	1.0	ug/l	0*	0*	70-130	0	30
Chrysene	0.010 U	0.010	0.050	ug/l	95	91	76-116	5	30
Dibenz(a,h)anthracene	0.010 U	0.010	0.050	ug/l	83	79	71-125	5	30
Diethylphthalate	0.050 U	0.050	1.0	ug/l	0*	0*	70-130	0	30
Dimethylphthalate	0.050 U	0.050	1.0	ug/l	0*	0*	70-130	0	30
Bis(2-Ethylhexyl)phthalate	0.050 U	0.050	1.0	ug/l	0*	0*	70-130	0	30
Fluoranthene	0.010 U	0.010	0.050	ug/l	93	89	75-116	5	30
Fluorene	0.010 U	0.010	0.050	ug/l	95	91	75-114	5	30
Indeno(1,2,3-cd)pyrene	0.010 U	0.010	0.050	ug/l	84	81	69-124	4	30
1-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	95	90	71-117	6	30
2-Methylnaphthalene	0.010 U	0.010	0.050	ug/l	87	81	75-115	6	30
Naphthalene	0.010 U	0.010	0.050	ug/l	91	86	72-109	5	30
N-Nitrosodimethylamine	0.010 U	0.010	0.050	ug/l	0*	0*	70-130	0	30
Di-n-octylphthalate	0.050 U	0.050	1.0	ug/l	0*	0*	70-130	0	30
Phenanthrene	0.010 U	0.010	0.050	ug/l	92	88	76-111	4	30
Pyrene	0.010 U	0.010	0.050	ug/l	94	89	69-118	5	30
Batch number: 103400007A									
Sample number(s): 6152652									
Aroclor 5432	0.10 U	0.10	0.50	ug/l					
Aroclor 5442	0.10 U	0.10	0.50	ug/l	56*	64*	75-125	13	30
Aroclor 5460	0.10 U	0.10	0.50	ug/l					
PCB-1016	0.10 U	0.10	0.50	ug/l	102	96	68-119	6	30
PCB-1221	0.10 U	0.10	0.50	ug/l					
PCB-1232	0.20 U	0.20	0.50	ug/l					
PCB-1242	0.10 U	0.10	0.50	ug/l					
PCB-1248	0.10 U	0.10	0.50	ug/l					
PCB-1254	0.10 U	0.10	0.50	ug/l					
PCB-1260	0.10 U	0.10	0.50	ug/l	100	92	68-121	8	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: 103400026A									
Sample number(s): 6152645-6152651									
Aroclor 5432	1.0 U	1.0	3.3	ug/kg					
Aroclor 5442	1.0 U	1.0	3.3	ug/kg	54*	51*	75-125	6	30
Aroclor 5460	1.0 U	1.0	3.3	ug/kg					
PCB-1016	0.33 U	0.33	1.7	ug/kg	95		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	106		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: 103351026003A									
Sample number(s): 6152645-6152651									
Antimony	0.0588 U	0.0588	0.196	mg/kg	65		11-208		
Arsenic	0.0588 U	0.0588	0.392	mg/kg	110		80-120		

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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: 12/21/10 at 09:43 AM

Group Number: 1223249

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Beryllium	0.0157 U	0.0157	0.0980	mg/kg	103		82-118		
Cadmium	0.0353 U	0.0353	0.0980	mg/kg	107		82-118		
Chromium	0.118 U	0.118	0.392	mg/kg	107		80-120		
Cobalt	0.0196 U	0.0196	0.0980	mg/kg	104		82-118		
Copper	0.146 J	0.0647	0.392	mg/kg	100		80-120		
Lead	0.0102 U	0.0102	0.196	mg/kg	98		80-120		
Nickel	0.0980 U	0.0980	0.392	mg/kg	108		80-120		
Silver	0.0118 U	0.0118	0.0980	mg/kg	104		66-134		
Thallium	0.0294 U	0.0294	0.0980	mg/kg	108		81-119		
Vanadium	0.0216 U	0.0216	0.0980	mg/kg	93		90-110		
Zinc	0.549 U	0.549	2.94	mg/kg	105		78-122		
Batch number: 103351026003B	Sample number(s): 6152645-6152651								
Selenium	0.0392 U	0.0392	0.392	mg/kg	104		79-122		
Batch number: 103351026003C	Sample number(s): 6152645-6152651								
Molybdenum	0.0490 U	0.0490	0.0980	mg/kg	111		78-122		
Batch number: 103351026003D	Sample number(s): 6152645-6152651								
Barium	0.106 U	0.106	0.392	mg/kg	104		79-121		
Batch number: 103355708003	Sample number(s): 6152645-6152651								
Aluminum	5.29 J	5.03	20.0	mg/kg	97		61-110		
Boron	0.890 U	0.890	5.00	mg/kg	98		78-110		
Calcium	64.4	6.13	20.0	mg/kg	100		88-110		
Iron	4.71 U	4.71	20.0	mg/kg	84		61-110		
Lithium	0.26 J	0.22	2.0	mg/kg	100		80-120		
Magnesium	4.04 J	2.54	10.0	mg/kg	95		82-110		
Manganese	0.0780 U	0.0780	0.500	mg/kg	105		81-119		
Phosphorus	1.47 J	0.560	10.0	mg/kg	104		80-120		
Potassium	18.0 U	18.0	50.0	mg/kg	96		78-110		
Sodium	37.3 U	37.3	100	mg/kg	96		87-110		
Strontium	0.0620 U	0.0620	0.500	mg/kg	107		79-121		
Tin	1.72 J	1.00	10.0	mg/kg	102		90-114		
Titanium	0.380 U	0.380	1.00	mg/kg	86		80-120		
Zirconium	0.840 U	0.840	5.00	mg/kg	104		80-120		
Batch number: 103355711003	Sample number(s): 6152645-6152651								
Mercury	0.0028 U	0.0028	0.0964	mg/kg	102		88-123		
Batch number: 103401848002	Sample number(s): 6152652								
Aluminum	0.0834 U	0.0834	0.200	mg/l	96	95	90-112	1	20
Boron	0.0138 U	0.0138	0.0500	mg/l	92	91	90-110	1	20
Calcium	0.0702 U	0.0702	0.200	mg/l	98	96	90-112	2	20
Iron	0.0522 U	0.0522	0.200	mg/l	101	100	90-112	1	20
Lithium	0.0024 U	0.0024	0.0200	mg/l	88	87	80-120	1	20
Magnesium	0.0259 J	0.0172	0.100	mg/l	101	93	89-110	9	20
Manganese	0.00084 U	0.00084	0.0050	mg/l	99	98	90-110	1	20
Phosphorus	0.0089 U	0.0089	0.100	mg/l	99	100	80-120	1	20
Potassium	0.239 U	0.239	0.500	mg/l	94	95	85-115	1	20
Sodium	0.433 U	0.433	1.00	mg/l	99	100	87-114	1	20
Strontium	0.00089 U	0.00089	0.0050	mg/l	98	98	90-110	1	20
Tin	0.0098 U	0.0098	0.0200	mg/l	98	98	90-110	0	20
Titanium	0.0038 U	0.0038	0.0100	mg/l	99	98	90-113	1	20
Zirconium	0.0206 U	0.0206	0.0500	mg/l	98	98	80-120	0	20
Batch number: 103405713004	Sample number(s): 6152652								
Mercury	0.000056	0.00005	0.00020	mg/l	95	97	80-120	2	20

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/21/10 at 09:43 AM

Group Number: 1223249

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS D %REC</u>	<u>LCS/LCS D Limits</u>	<u>RPD</u>	<u>RPD Max</u>
	U	6							
Batch number: 103406050001A	Sample number(s): 6152652								
Antimony	0.00030 U	0.00030	0.0010	mg/l	107	107	87-110	0	20
Arsenic	0.00095 U	0.00095	0.0020	mg/l	101	99	86-111	1	20
Beryllium	0.00013 U	0.00013	0.00050	mg/l	105	106	90-112	2	20
Cadmium	0.00020 U	0.00020	0.00050	mg/l	100	95	90-114	5	20
Chromium	0.00060 U	0.00060	0.0020	mg/l	101	102	90-118	1	20
Cobalt	0.00010 U	0.00010	0.00050	mg/l	97	97	80-120	1	20
Copper	0.00038 U	0.00038	0.0020	mg/l	101	104	90-113	2	20
Lead	0.000052 U	0.00005	0.0010	mg/l	102	97	90-115	5	20
Nickel	0.00050 U	0.00050	0.0020	mg/l	104	102	90-113	2	20
Silver	0.00018 J	0.00008	0.00050	mg/l	100	99	90-115	0	20
Thallium	0.00015 U	0.00015	0.00050	mg/l	98	96	89-116	2	20
Vanadium	0.00016 U	0.00016	0.00050	mg/l	101	101	80-120	0	20
Zinc	0.0040 U	0.0040	0.0150	mg/l	93	99	80-120	7	20
Batch number: 103406050001B	Sample number(s): 6152652								
Selenium	0.00025 U	0.00025	0.0020	mg/l	106	107	85-114	0	20
Batch number: 103406050001C	Sample number(s): 6152652								
Molybdenum	0.00025 U	0.00025	0.00050	mg/l	97	100	80-120	3	20
Batch number: 103406050001D	Sample number(s): 6152652								
Barium	0.00038 U	0.00038	0.0020	mg/l	109	103	88-113	6	20
Batch number: 10335621301A	Sample number(s): 6152652								
Hexavalent Chromium (water)	5.0 U	5.0	10.0	ug/l	98		90-110		
Batch number: 10336196901A	Sample number(s): 6152652								
Fluoride	0.080 U	0.080	0.10	mg/l	102	100	90-110	1	20
Batch number: 10342342202A	Sample number(s): 6152645-6152651								
Fluoride by IC (solid)	0.80 U	0.80	1.0	mg/kg	107		90-110		
Batch number: 10343343201A	Sample number(s): 6152645-6152647								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	101		85-115		
Batch number: 10343343201B	Sample number(s): 6152648-6152651								
Perchlorate in Soil	9.0 U	9.0	30.0	ug/kg	101		85-115		
Batch number: 10349243201A	Sample number(s): 6152645-6152651								
Hexavalent Chromium by IC	0.20 U	0.20	1.0	mg/kg	93		80-120		
Batch number: 10352658701A	Sample number(s): 6152652								
Perchlorate	0.70 U	0.70	2.0	ug/l	90	91	84-115	1	20
Batch number: 10335039403A	Sample number(s): 6152645-6152651								
pH					101		95-105		
Batch number: 10335182103A	Sample number(s): 6152645-6152651								
Oxidation Reduction Potential					98		98-102		
Batch number: 10343162401A	Sample number(s): 6152645-6152650								
Moisture CDM					100		80-120		

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Quality Control Summary

Client Name: CDM Federal Programs Corp.
Reported: 12/21/10 at 09:43 AM

Group Number: 1223249

<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: 10344162401A	Sample number(s): 6152651								
Moisture CDM					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: B103361AA	Sample number(s): 6152645, 6152647, 6152649, 6152651 UNSPK: 6152647								
Acetone	170		15-210						
Benzene	102		55-143						
Bromobenzene	93		43-139						
Bromochloromethane	112		60-137						
Bromodichloromethane	96		53-136						
Bromoform	96		38-124						
Bromomethane	78		42-168						
2-Butanone	126		37-163						
n-Butylbenzene	98		30-146						
sec-Butylbenzene	100		33-157						
tert-Butylbenzene	95		41-152						
Carbon Tetrachloride	106		45-153						
Chlorobenzene	96		49-135						
Chloroethane	77		39-152						
2-Chloroethyl Vinyl Ether	111		32-139						
Chloroform	103		61-142						
Chloromethane	98		51-163						
2-Chlorotoluene	94		42-146						
4-Chlorotoluene	94		39-145						
1,2-Dibromo-3-chloropropane	93		30-139						
Dibromochloromethane	96		51-128						
1,2-Dibromoethane	98		54-129						
Dibromomethane	102		57-130						
1,2-Dichlorobenzene	92		36-133						
1,3-Dichlorobenzene	91		34-134						
1,4-Dichlorobenzene	91		35-136						
Dichlorodifluoromethane	80		26-151						
1,1-Dichloroethane	101		63-142						
1,2-Dichloroethane	103		68-131						
1,1-Dichloroethene	106		61-149						
cis-1,2-Dichloroethene	101		60-136						
trans-1,2-Dichloroethene	104		59-142						
1,2-Dichloropropane	97		62-135						
1,3-Dichloropropane	96		58-129						
2,2-Dichloropropane	102		53-147						
1,1-Dichloropropene	101		54-145						
cis-1,3-Dichloropropene	91		51-131						
trans-1,3-Dichloropropene	93		49-129						
Ethylbenzene	98		44-141						
Freon 113	111		56-156						
Hexachlorobutadiene	91		10-155						
2-Hexanone	83		32-160						
Isopropylbenzene	98		38-144						

*- 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: 12/21/10 at 09:43 AM

Group Number: 1223249

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
p-Isopropyltoluene	98		29-152						
Methyl Tertiary Butyl Ether	100		55-129						
4-Methyl-2-pentanone	79		46-139						
Methylene Chloride	97		61-141						
n-Propylbenzene	100		39-157						
Styrene	95		35-134						
1,1,1,2-Tetrachloroethane	97		52-130						
1,1,2,2-Tetrachloroethane	96		40-152						
Tetrachloroethene	99		42-149						
Toluene	98		50-146						
1,2,3-Trichlorobenzene	79		10-140						
1,2,4-Trichlorobenzene	81		10-136						
1,1,1-Trichloroethane	107		64-142						
1,1,2-Trichloroethane	98		54-139						
Trichloroethene	100		53-144						
Trichlorofluoromethane	96		47-163						
1,2,3-Trichloropropane	97		45-154						
1,2,4-Trimethylbenzene	96		37-149						
1,3,5-Trimethylbenzene	97		38-150						
Vinyl Chloride	87		50-154						
m+p-Xylene	98		44-137						
o-Xylene	94		42-137						
Batch number: E103351AA	Sample number(s): 6152652-6152653 UNSPK: P151866								
1,4-Dioxane	100	119	50-150	8	30				
Batch number: 10335SLE026	Sample number(s): 6152645-6152651 UNSPK: P147115								
Acenaphthene	83	80	63-105	3	30				
Acenaphthylene	82	79	55-126	3	30				
Anthracene	84	81	46-136	4	30				
Benzo(a)anthracene	93	82	39-144	11	30				
Benzo(a)pyrene	72	90	34-156	15	30				
Benzo(b)fluoranthene	140	136	43-155	2	30				
Benzo(g,h,i)perylene	-1*	32*	33-141	31*	30				
Benzo(k)fluoranthene	109	98	42-144	8	30				
Butylbenzylphthalate	146*	145*	73-140	1	30				
Di-n-butylphthalate	109	100	78-160	8	30				
Chrysene	78	84	29-156	6	30				
Dibenz(a,h)anthracene	34*	37*	41-130	7	30				
Diethylphthalate	107	82*	87-131	26	30				
Dimethylphthalate	96	89	74-118	8	30				
Bis(2-Ethylhexyl)phthalate	86	106	39-167	11	30				
Fluoranthene	71	56	26-166	20	30				
Fluorene	86	82	45-121	5	30				
Indeno(1,2,3-cd)pyrene	33	36	21-143	7	30				
1-Methylnaphthalene	87	87	72-123	0	30				
2-Methylnaphthalene	77	78	28-121	1	30				
Naphthalene	81	82	61-102	0	30				
N-Nitrosodimethylamine	74	76	48-113	2	30				
Di-n-octylphthalate	238*	195*	40-192	20	30				
Phenanthrene	85	79	12-165	7	30				
Pyrene	155*	150	15-153	3	30				

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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: 12/21/10 at 09:43 AM

Group Number: 1223249

Sample Matrix Quality Control

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

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 10335SLF026	Sample number(s): 6152645-6152651 UNSPK: P151502								
Aniline	59	57	14-114	4	30				
Benidine	24*	26*	35-141	9	30				
Benzoic acid	36	33	10-173	9	30				
Benzyl alcohol	87	90	55-123	3	30				
4-Bromophenyl-phenylether	101	99	67-129	1	30				
Carbazole	97	95	64-120	2	30				
4-Chloro-3-methylphenol	92	92	53-130	0	30				
4-Chloroaniline	59	54	23-95	8	30				
bis(2-Chloroethoxy)methane	88	88	54-117	1	30				
bis(2-Chloroethyl)ether	81	81	60-116	1	30				
bis(2-Chloroisopropyl)ether	69	69	55-142	1	30				
2-Chloronaphthalene	92	95	50-141	3	30				
2-Chlorophenol	89	91	73-121	2	30				
4-Chlorophenyl-phenylether	100	99	64-119	0	30				
Dibenzofuran	96	97	71-112	0	30				
1,2-Dichlorobenzene	79	77	66-108	2	30				
1,3-Dichlorobenzene	77	76	63-109	1	30				
1,4-Dichlorobenzene	80	77	53-113	4	30				
3,3'-Dichlorobenzidine	70	63	25-123	10	30				
2,4-Dichlorophenol	98	96	78-117	2	30				
2,4-Dimethylphenol	91	91	56-130	0	30				
3,5-Dimethylphenol	102	100	70-130	2	30				
4,6-Dinitro-2-methylphenol	66	61	10-148	8	30				
2,4-Dinitrophenol	47	41	20-143	14	30				
2,4-Dinitrotoluene	94	97	57-114	4	30				
2,6-Dinitrotoluene	97	95	69-123	1	30				
1,2-Diphenylhydrazine	92	92	71-129	0	30				
Hexachlorobenzene	101	104	61-111	2	30				
Hexachlorobutadiene	87	86	62-120	1	30				
Hexachlorocyclopentadiene	73	67	10-153	9	30				
Hexachloroethane	75	75	57-109	0	30				
Isophorone	83	83	51-118	0	30				
2-Methylphenol	87	87	47-142	0	30				
4-Methylphenol	84	84	55-126	1	30				
2-Nitroaniline	94	96	67-125	2	30				
3-Nitroaniline	90	87	59-122	3	30				
4-Nitroaniline	72	70	52-112	3	30				
Nitrobenzene	83	83	51-114	0	30				
2-Nitrophenol	91	91	74-115	1	30				
4-Nitrophenol	75	72	39-133	3	30				
N-Nitroso-di-n-propylamine	76	76	60-116	1	30				
N-Nitrosodiphenylamine	99	99	86-145	0	30				
Pentachlorophenol	82	79	17-149	5	30				
Phenol	80	79	58-126	2	30				
1,2,4-Trichlorobenzene	90	90	72-115	0	30				
2,4,5-Trichlorophenol	99	98	34-139	0	30				
2,4,6-Trichlorophenol	101	98	49-140	3	30				
Batch number: 103400026A	Sample number(s): 6152645-6152651 UNSPK: P154843								
PCB-1016	85	81	29-146	5	50				
PCB-1260	96	97	39-149	0	50				

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